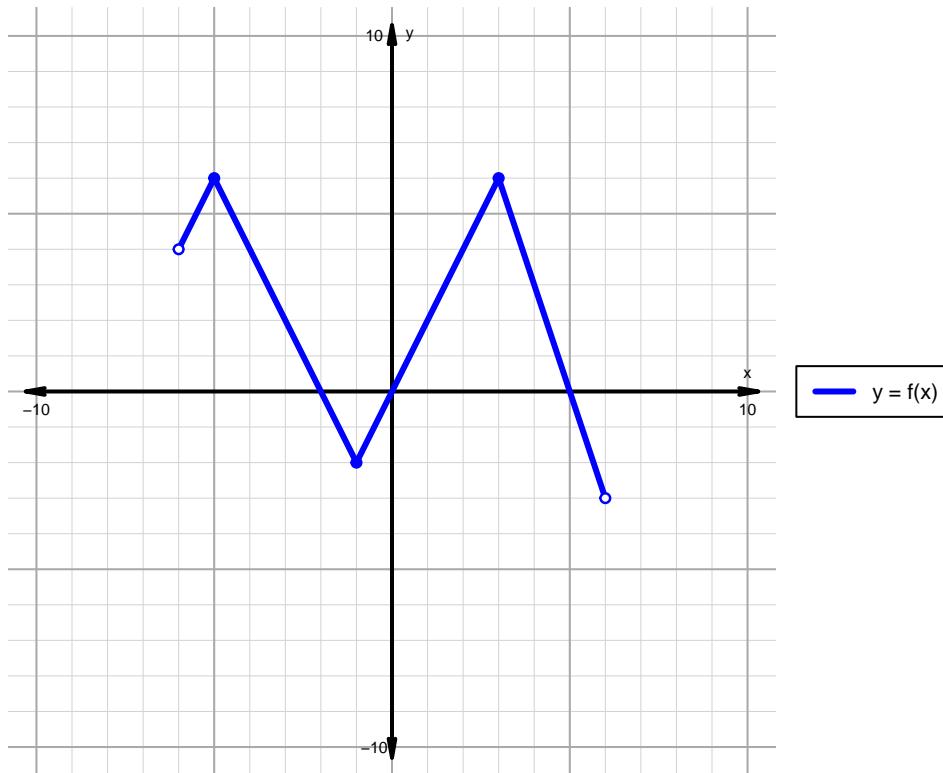


Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 51)

1. The function f is graphed below.



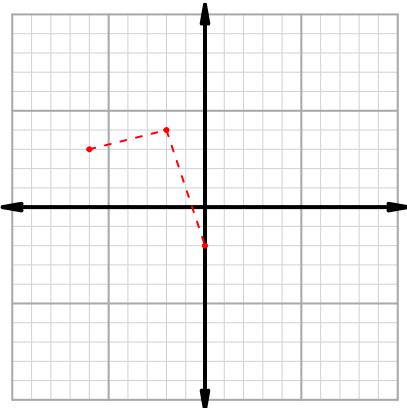
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

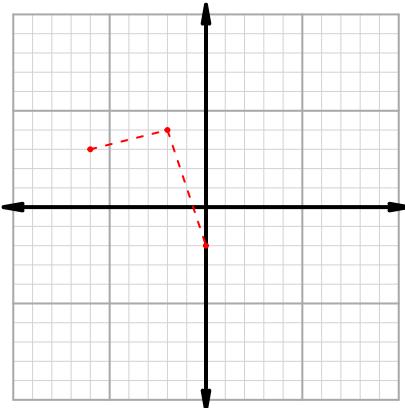
Intervals, Transformations, and Slope Practice (version 51)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

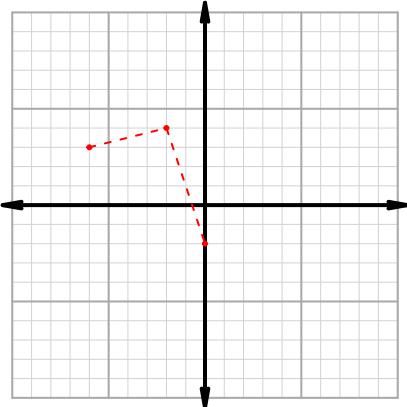
$$y = f(x) + 2$$



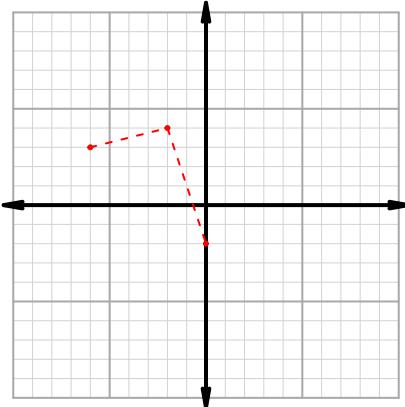
$$y = f(2 \cdot x)$$



$$y = -2 \cdot f(x)$$



$$y = f(x+2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 36$ and $x_2 = 64$. Express your answer as a reduced fraction.

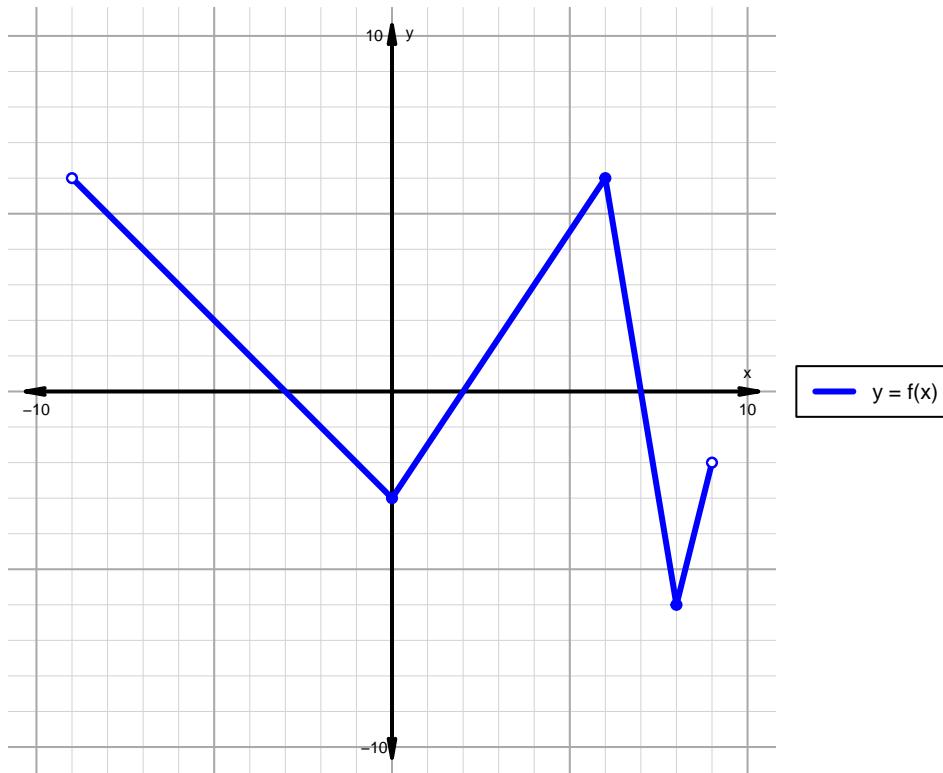
x	$g(x)$
36	75
64	79
75	64
79	36

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 52)

1. The function f is graphed below.



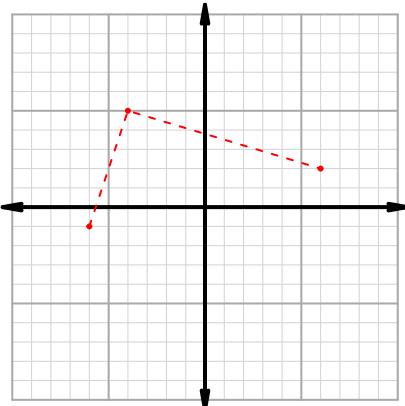
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

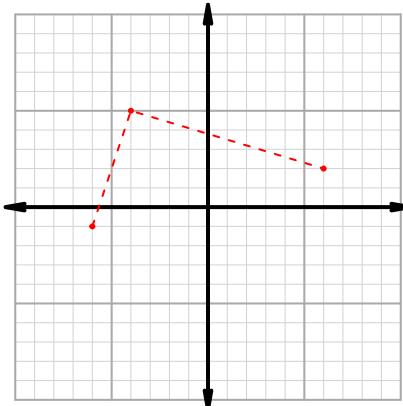
Intervals, Transformations, and Slope Practice (version 52)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

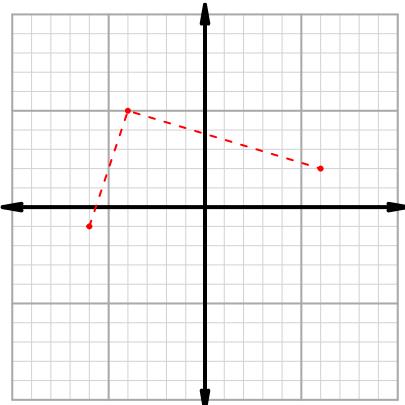
$$y = f(x - 2)$$



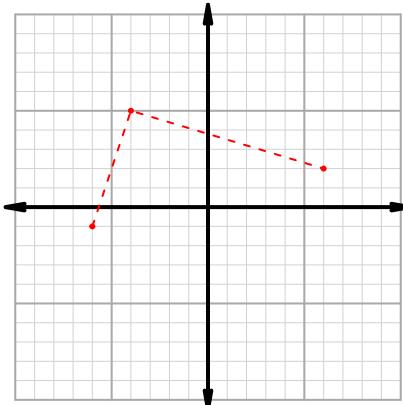
$$y = f(x) - 2$$



$$y = f(-2 \cdot x)$$



$$y = 2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 33$ and $x_2 = 96$. Express your answer as a reduced fraction.

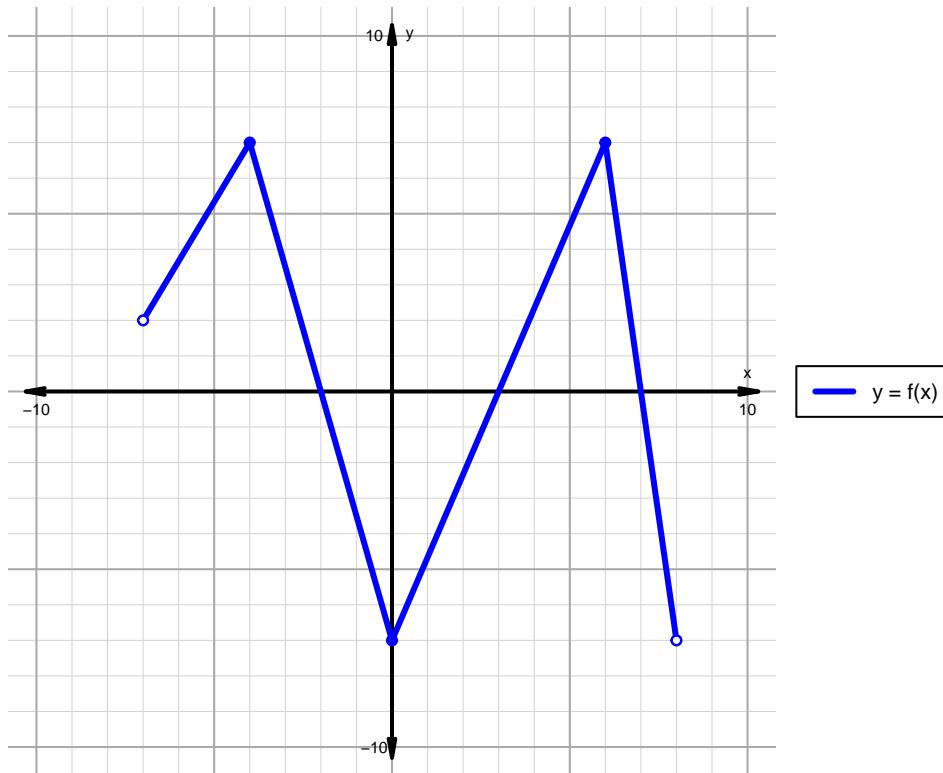
x	$g(x)$
33	64
55	33
64	96
96	55

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 53)

1. The function f is graphed below.



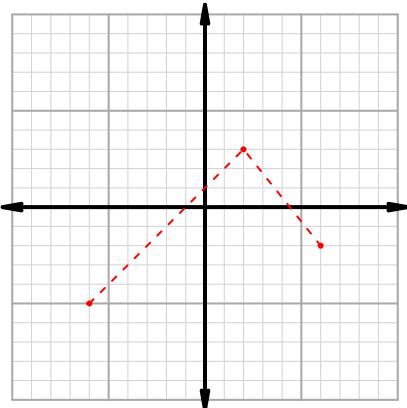
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

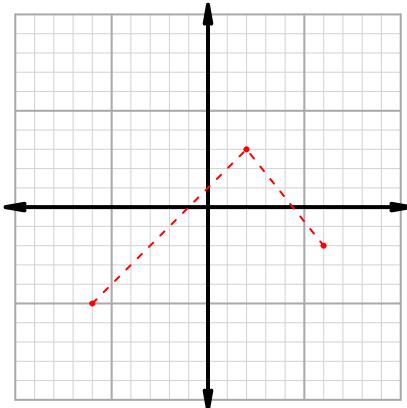
Intervals, Transformations, and Slope Practice (version 53)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

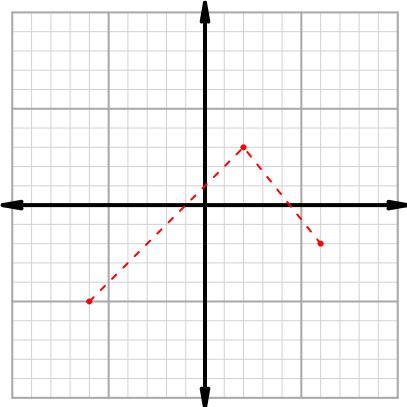
$$y = f(x+2)$$



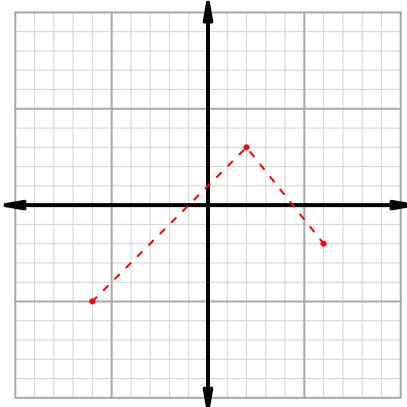
$$y = f(2 \cdot x)$$



$$y = f(x) - 2$$



$$y = 2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 61$ and $x_2 = 93$. Express your answer as a reduced fraction.

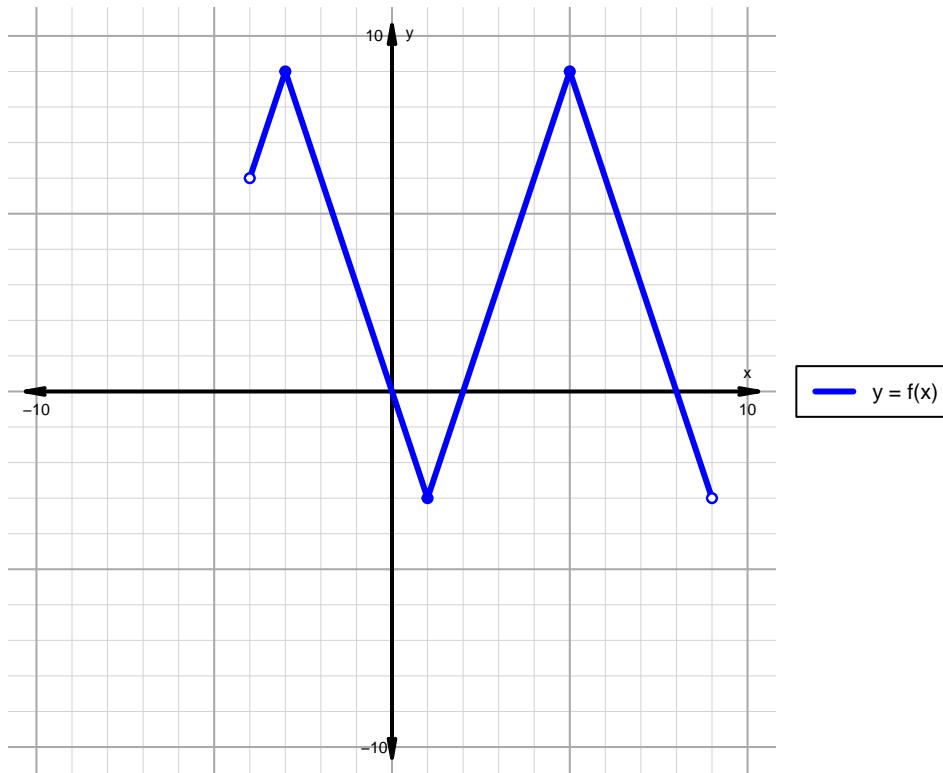
x	$g(x)$
45	61
57	93
61	57
93	45

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 54)

1. The function f is graphed below.



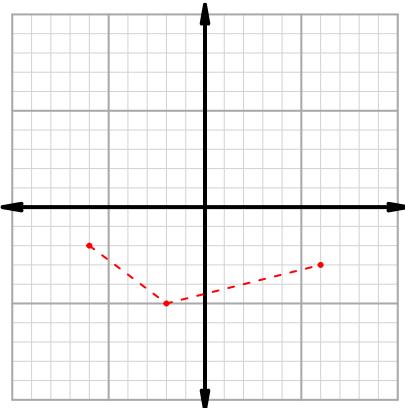
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

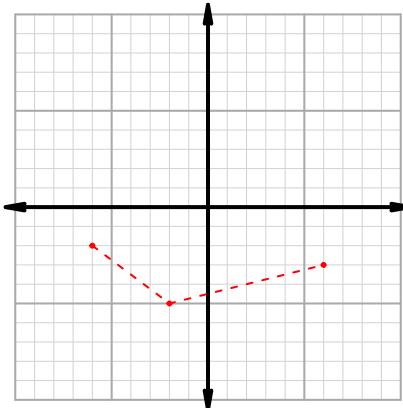
Intervals, Transformations, and Slope Practice (version 54)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

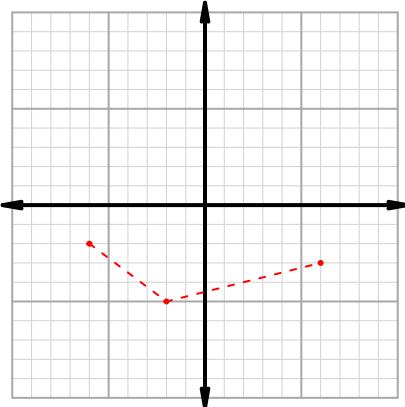
$$y = f(x) + 2$$



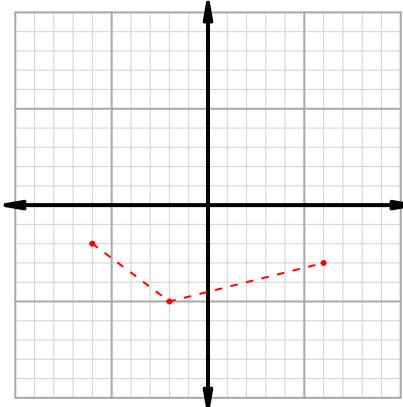
$$y = 2 \cdot f(x)$$



$$y = f(-2 \cdot x)$$



$$y = f(x+2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 18$ and $x_2 = 67$. Express your answer as a reduced fraction.

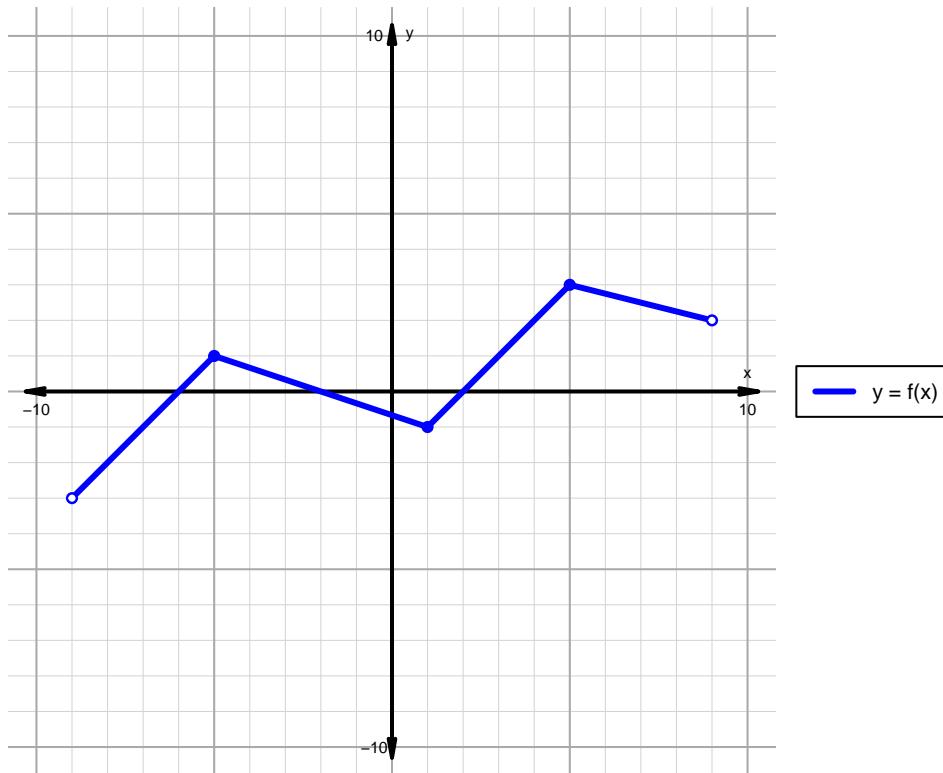
x	$g(x)$
18	82
54	18
67	54
82	67

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 55)

1. The function f is graphed below.



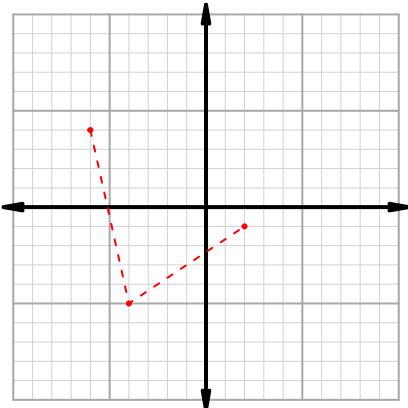
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

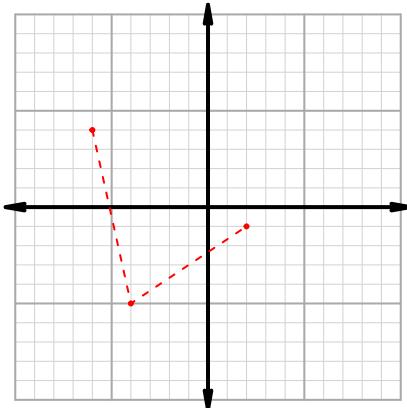
Intervals, Transformations, and Slope Practice (version 55)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

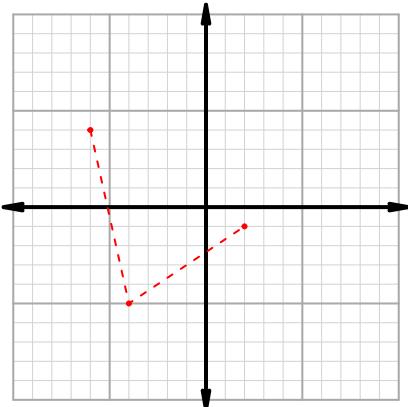
$$y = f(x+2)$$



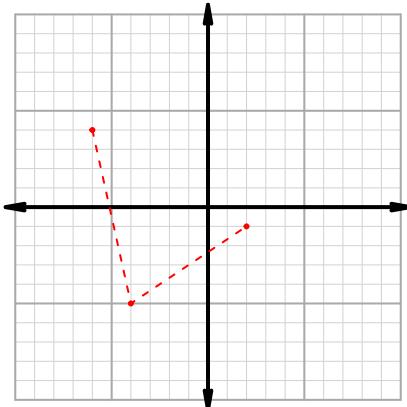
$$y = f(-2 \cdot x)$$



$$y = f(x) - 2$$



$$y = 2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 80$ and $x_2 = 98$. Express your answer as a reduced fraction.

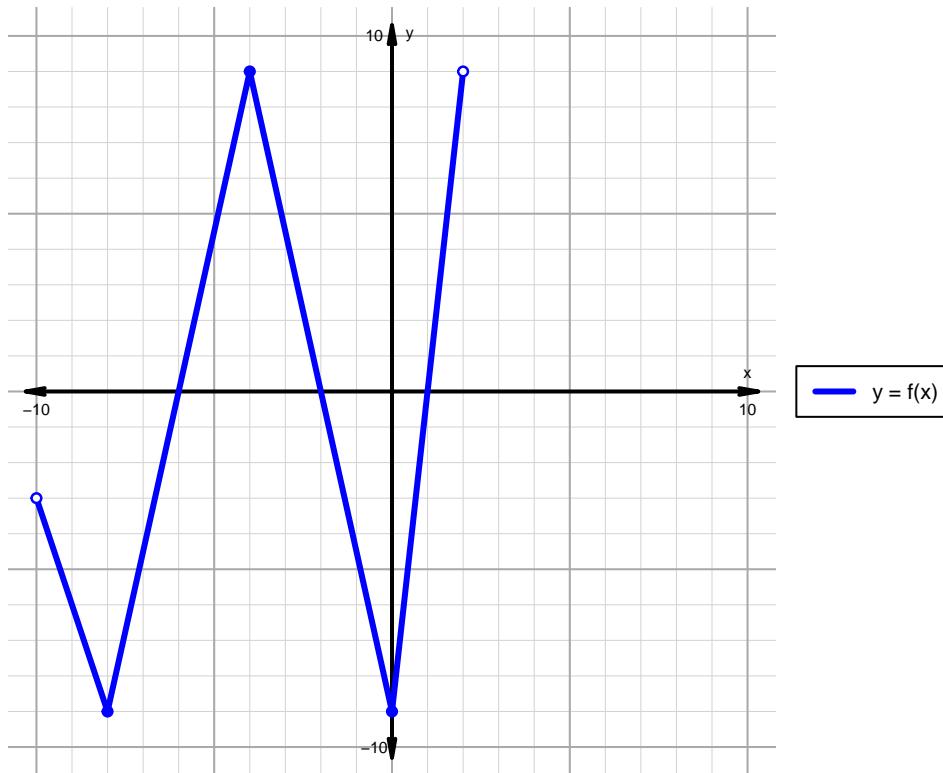
x	$g(x)$
25	80
80	88
88	98
98	25

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 56)

1. The function f is graphed below.



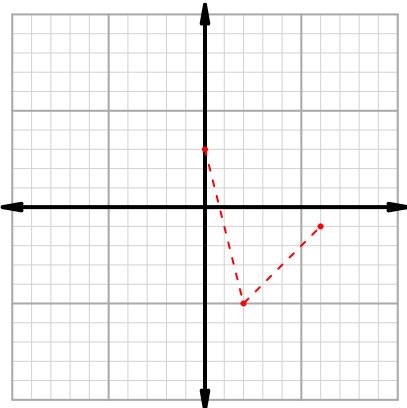
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

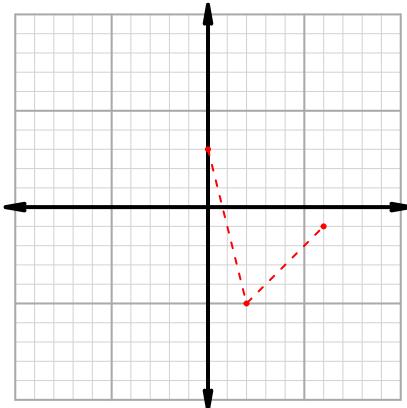
Intervals, Transformations, and Slope Practice (version 56)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

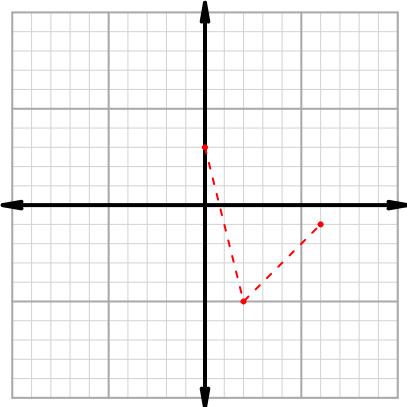
$$y = f(x - 2)$$



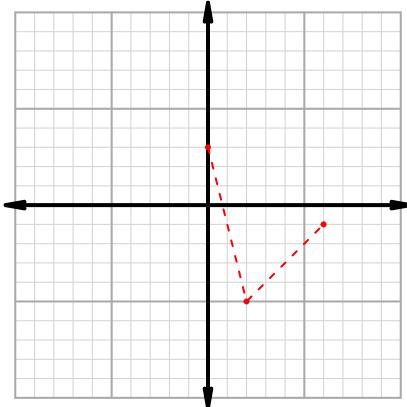
$$y = f(2 \cdot x)$$



$$y = -2 \cdot f(x)$$



$$y = f(x) - 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 38$ and $x_2 = 92$. Express your answer as a reduced fraction.

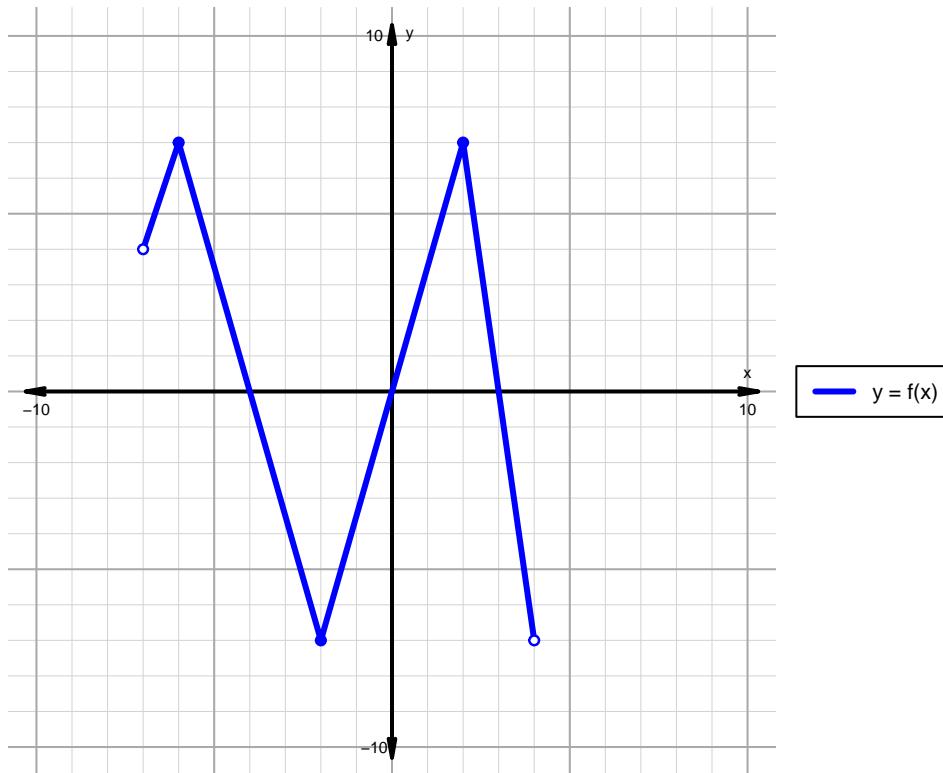
x	$g(x)$
20	92
38	20
68	38
92	68

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 57)

1. The function f is graphed below.



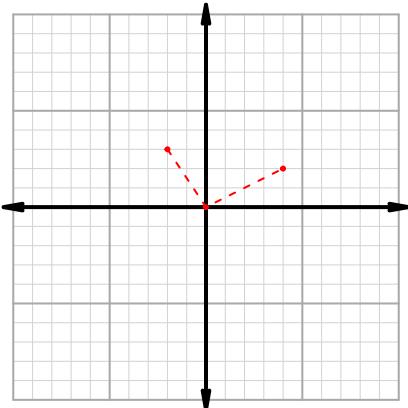
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

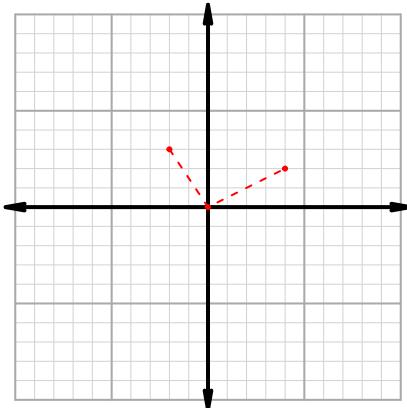
Intervals, Transformations, and Slope Practice (version 57)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

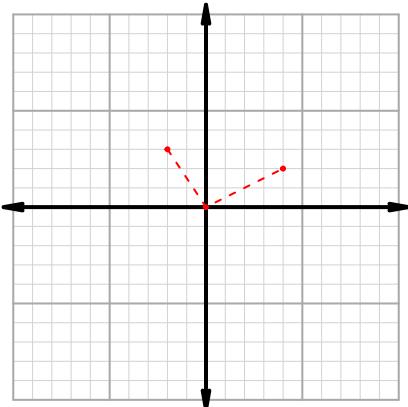
$$y = f(2 \cdot x)$$



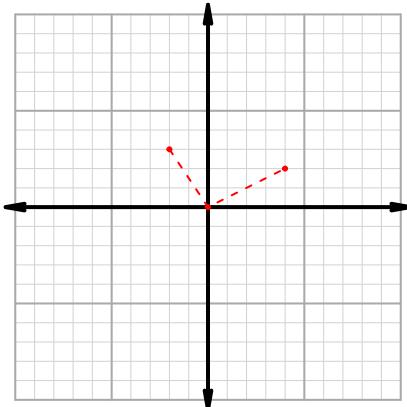
$$y = f(x - 2)$$



$$y = 2 \cdot f(x)$$



$$y = f(x) + 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 18$ and $x_2 = 53$. Express your answer as a reduced fraction.

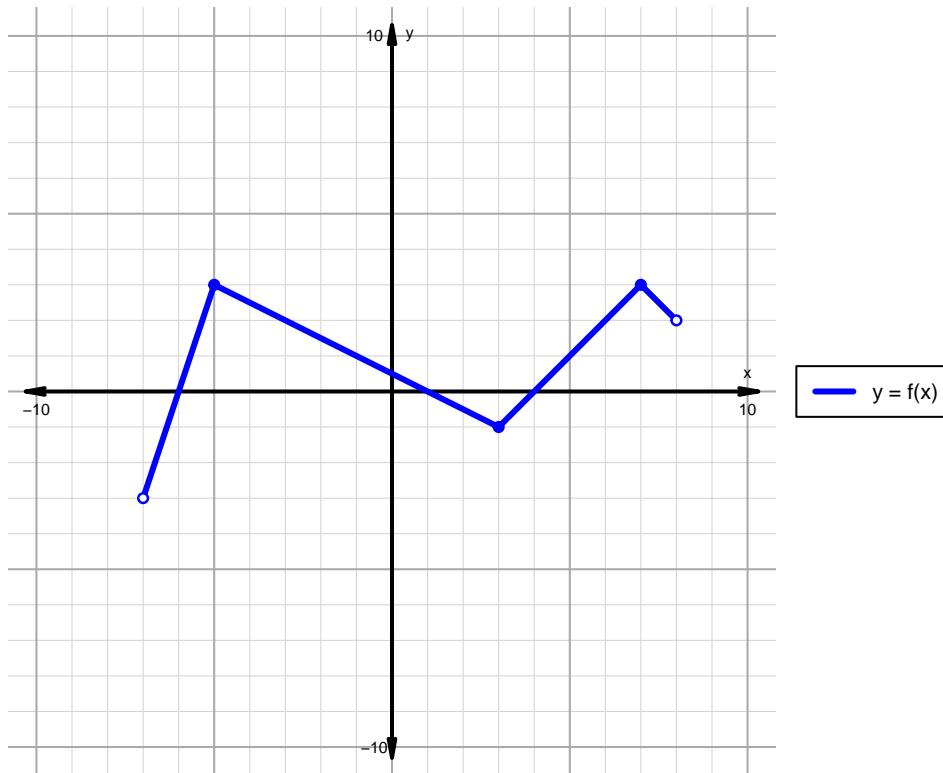
x	$g(x)$
18	73
53	66
66	18
73	53

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 58)

1. The function f is graphed below.



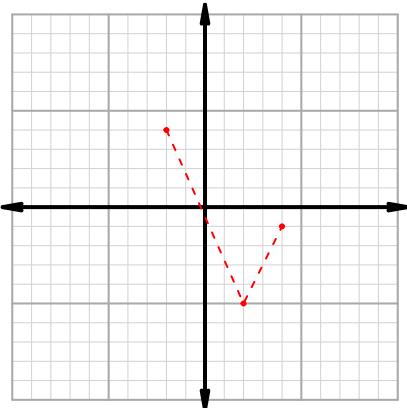
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

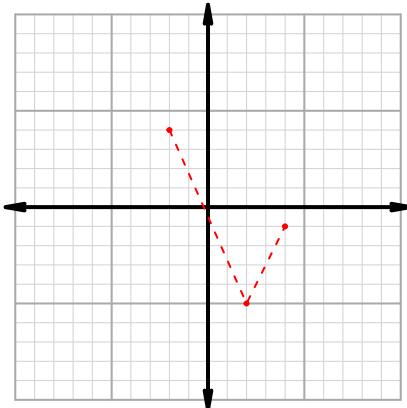
Intervals, Transformations, and Slope Practice (version 58)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

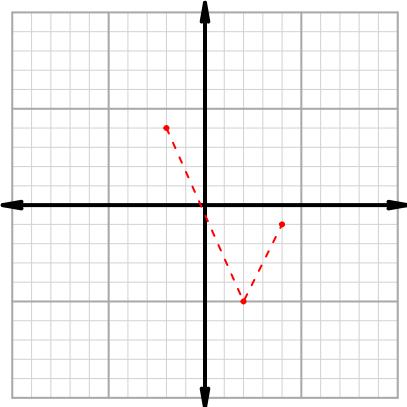
$$y = f(-2 \cdot x)$$



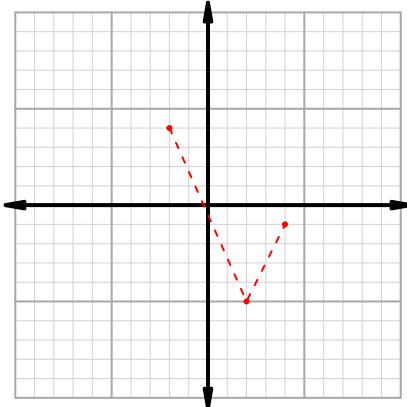
$$y = f(x) - 2$$



$$y = -2 \cdot f(x)$$



$$y = f(x+2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 29$ and $x_2 = 92$. Express your answer as a reduced fraction.

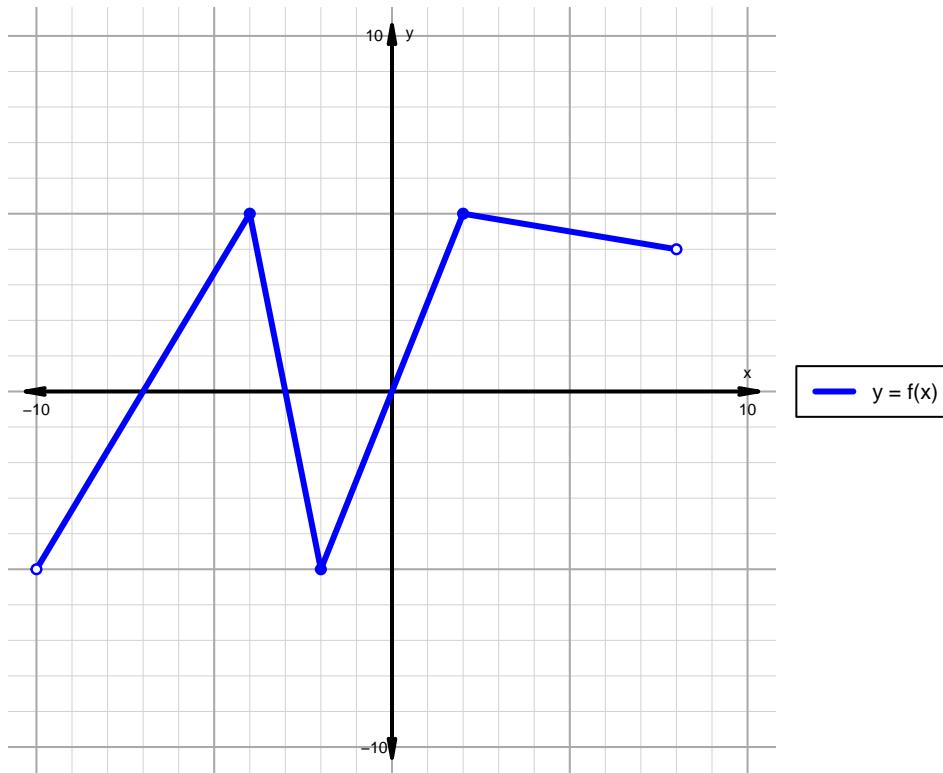
x	$g(x)$
29	33
33	92
68	29
92	68

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 59)

1. The function f is graphed below.



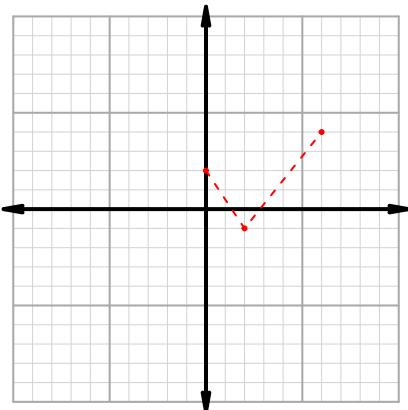
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

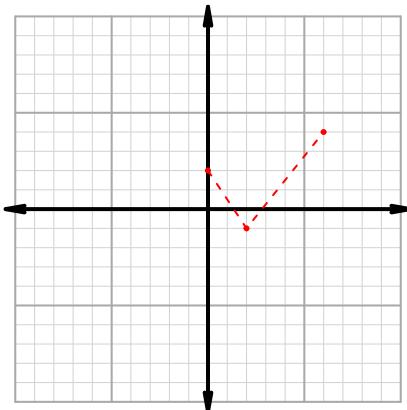
Intervals, Transformations, and Slope Practice (version 59)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

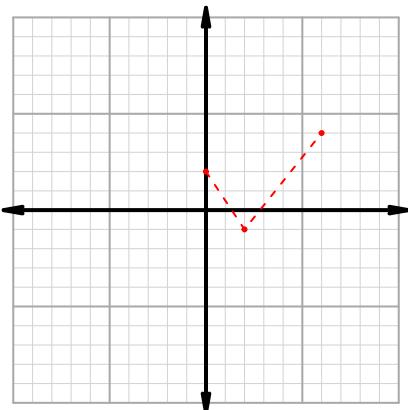
$$y = f(x) + 2$$



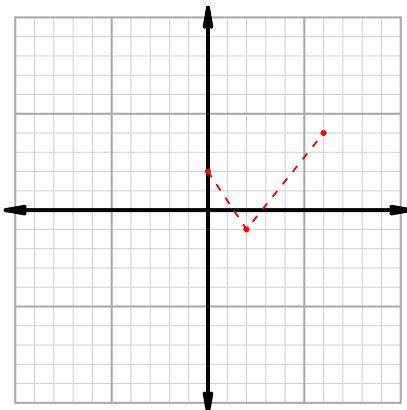
$$y = f(-2 \cdot x)$$



$$y = 2 \cdot f(x)$$



$$y = f(x+2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 59$ and $x_2 = 77$. Express your answer as a reduced fraction.

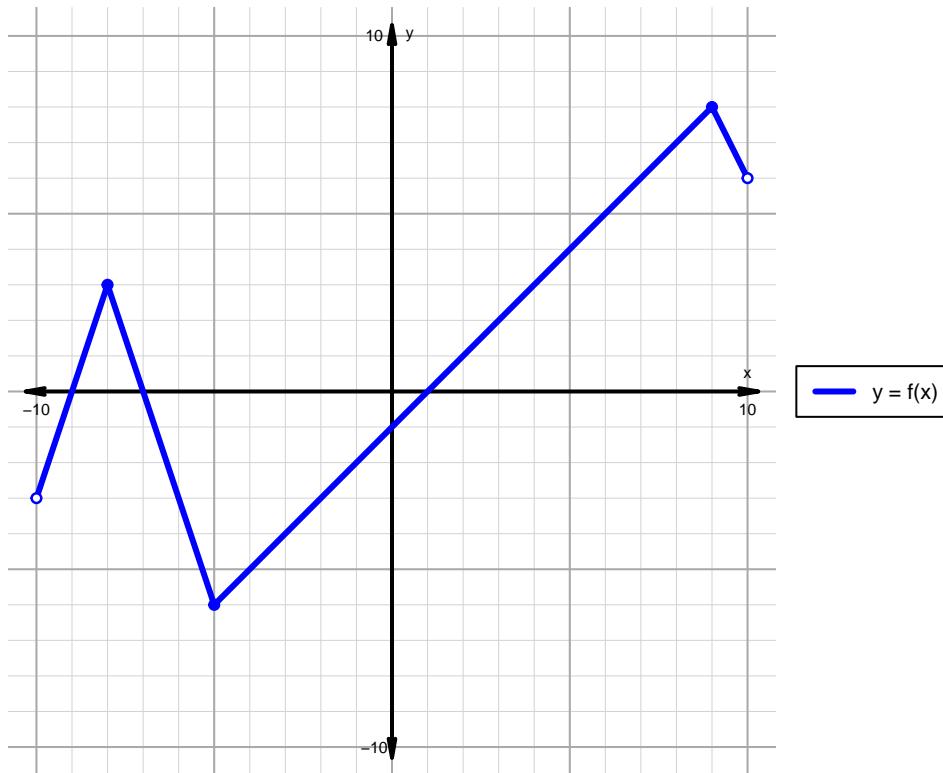
x	$g(x)$
17	59
38	77
59	38
77	17

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 60)

1. The function f is graphed below.



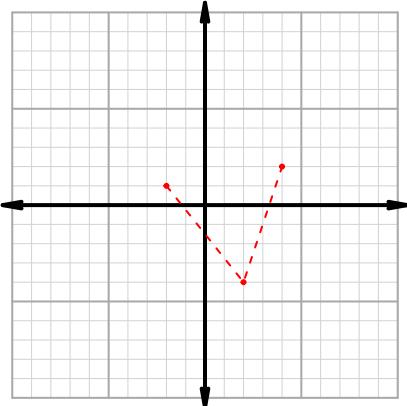
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

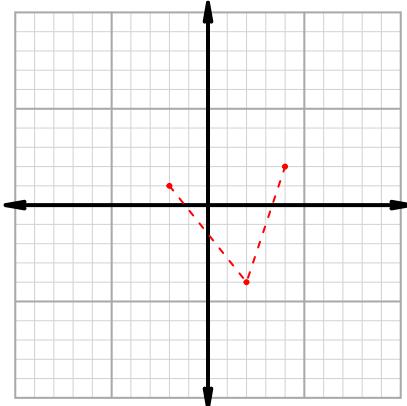
Intervals, Transformations, and Slope Practice (version 60)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

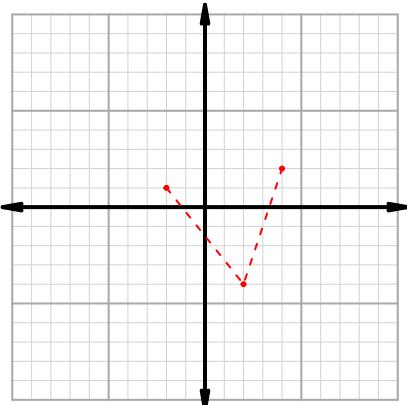
$$y = f(2 \cdot x)$$



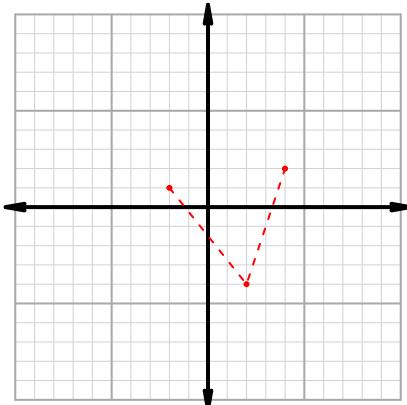
$$y = f(x + 2)$$



$$y = 2 \cdot f(x)$$



$$y = f(x) + 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 31$ and $x_2 = 67$. Express your answer as a reduced fraction.

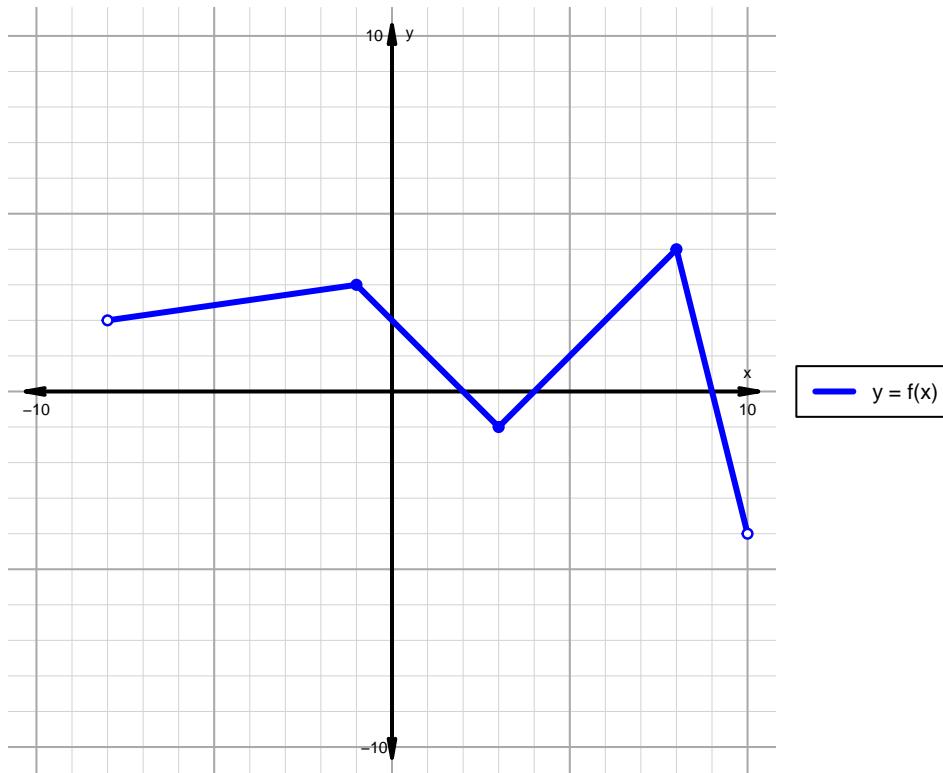
x	$g(x)$
31	85
67	77
77	31
85	67

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 61)

1. The function f is graphed below.



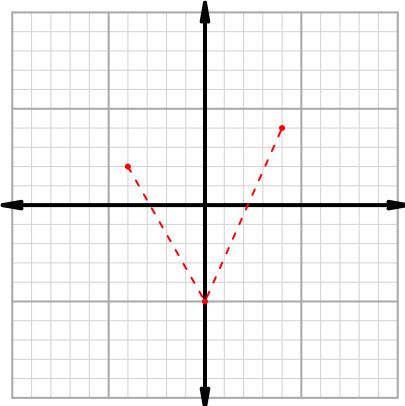
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

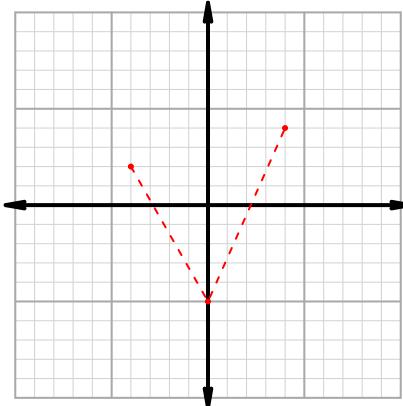
Intervals, Transformations, and Slope Practice (version 61)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

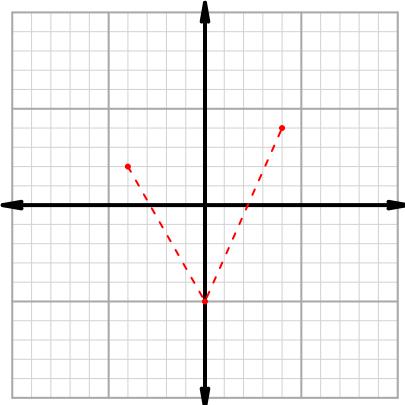
$$y = -2 \cdot f(x)$$



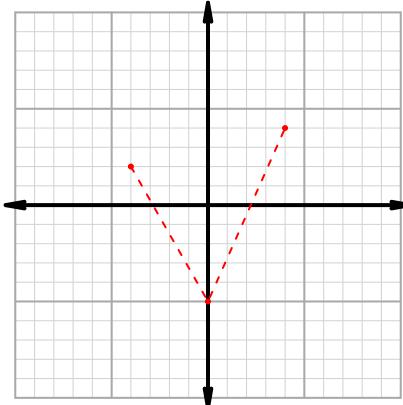
$$y = f(x) + 2$$



$$y = f(x - 2)$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 82$ and $x_2 = 97$. Express your answer as a reduced fraction.

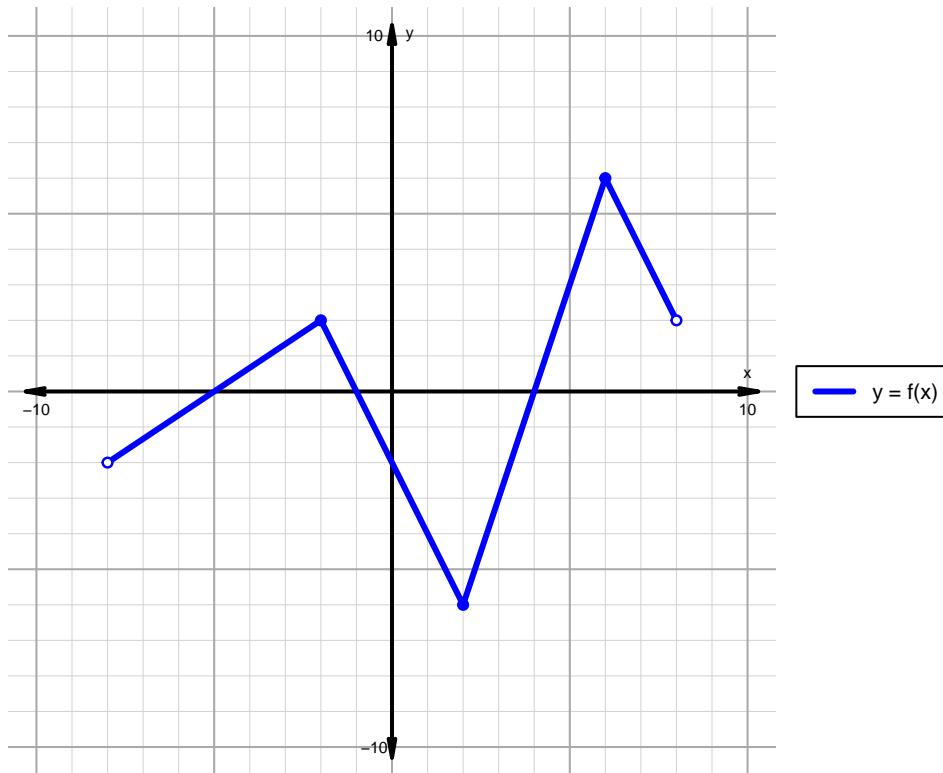
x	$g(x)$
22	97
40	82
82	22
97	40

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 62)

1. The function f is graphed below.



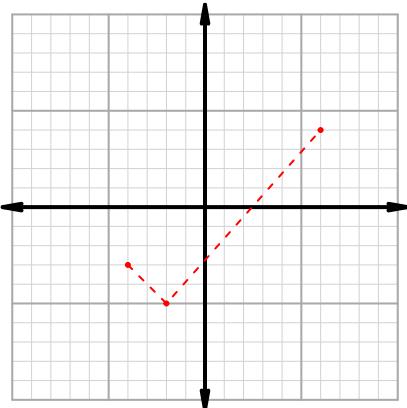
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

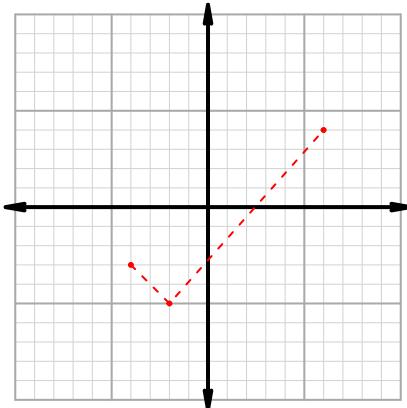
Intervals, Transformations, and Slope Practice (version 62)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

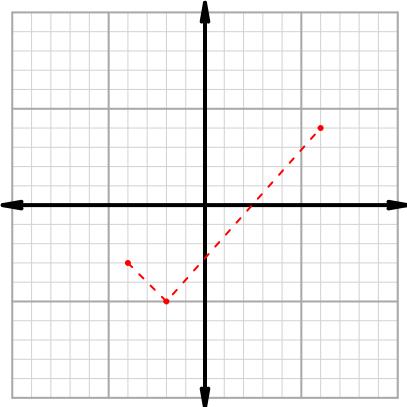
$$y = f(x) + 2$$



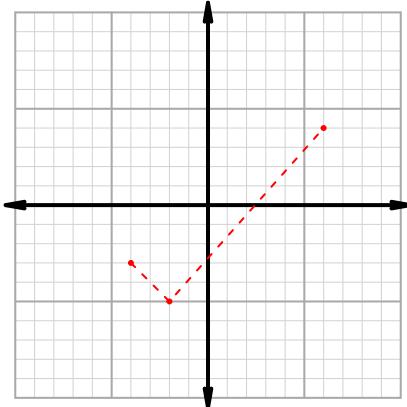
$$y = f(2 \cdot x)$$



$$y = -2 \cdot f(x)$$



$$y = f(x - 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 16$ and $x_2 = 58$. Express your answer as a reduced fraction.

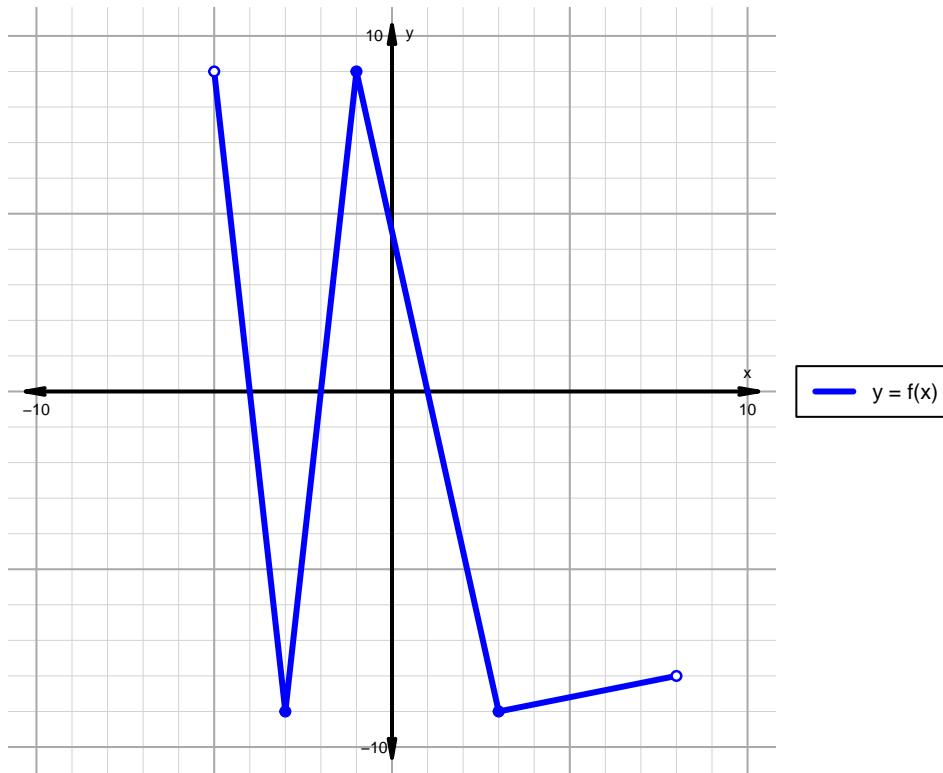
x	$g(x)$
16	90
58	72
72	16
90	58

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 63)

1. The function f is graphed below.



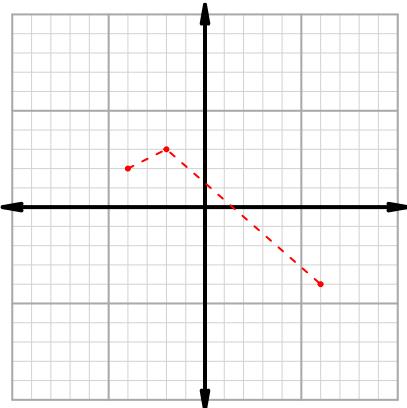
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

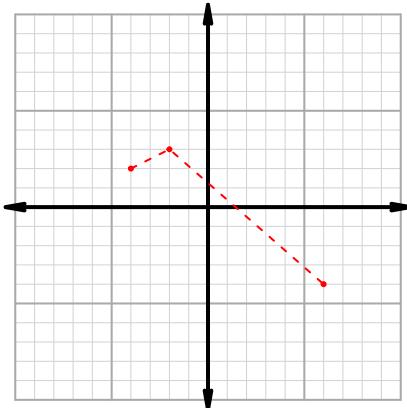
Intervals, Transformations, and Slope Practice (version 63)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

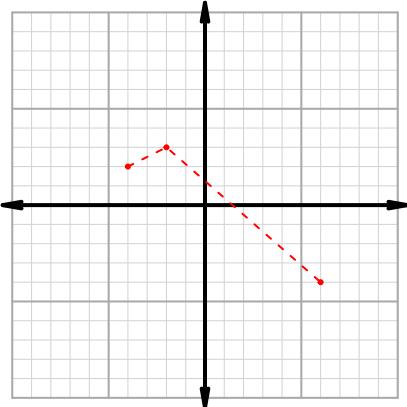
$$y = f(x) - 2$$



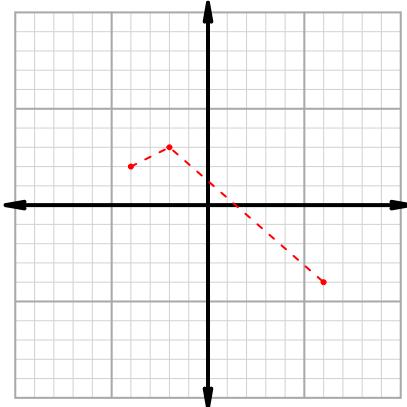
$$y = 2 \cdot f(x)$$



$$y = f(-2 \cdot x)$$



$$y = f(x + 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 48$ and $x_2 = 52$. Express your answer as a reduced fraction.

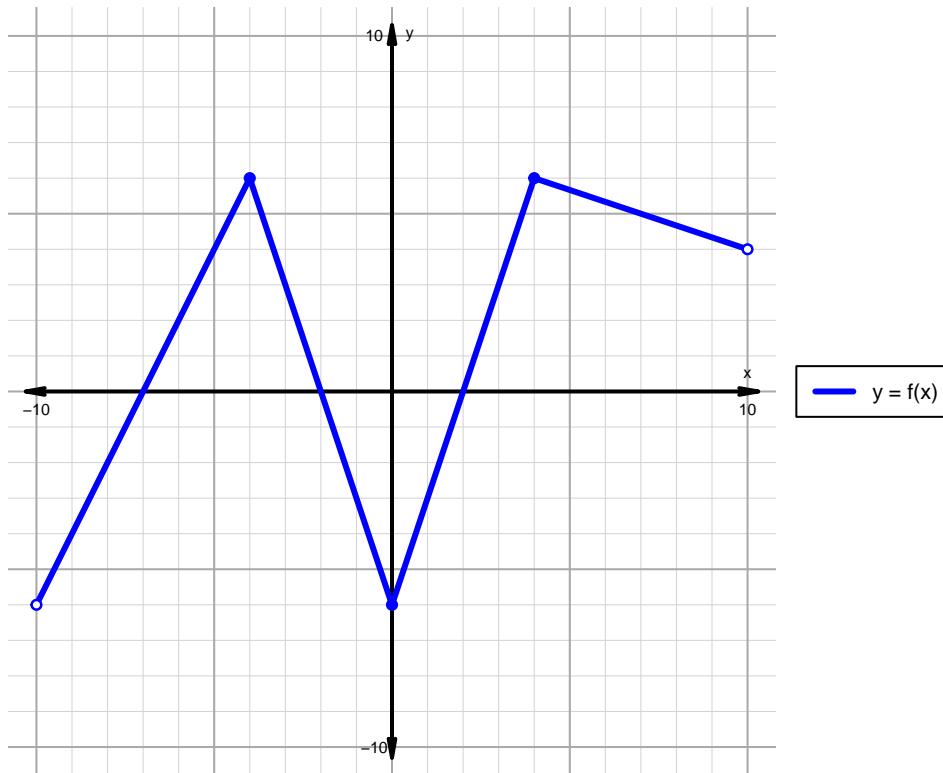
x	$g(x)$
48	76
52	66
66	48
76	52

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 64)

1. The function f is graphed below.



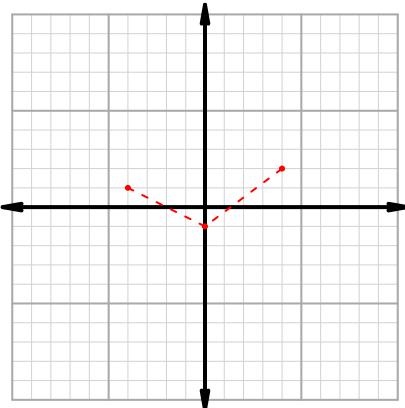
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

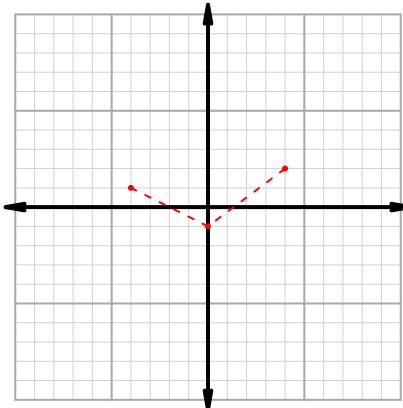
Intervals, Transformations, and Slope Practice (version 64)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

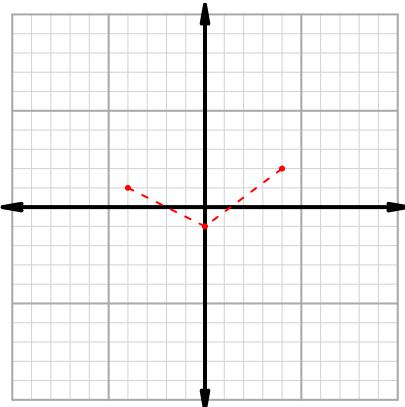
$$y = 2 \cdot f(x)$$



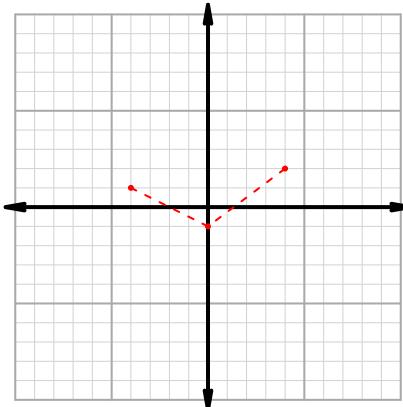
$$y = f(x) + 2$$



$$y = f(x + 2)$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 43$ and $x_2 = 67$. Express your answer as a reduced fraction.

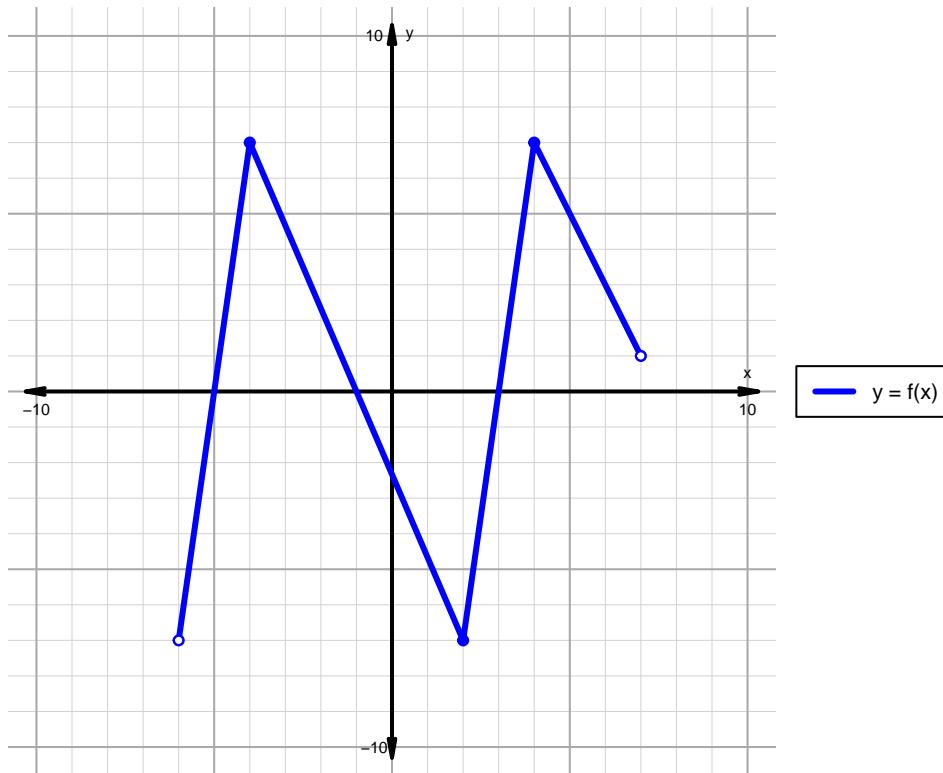
x	$g(x)$
31	67
40	43
43	31
67	40

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 65)

1. The function f is graphed below.



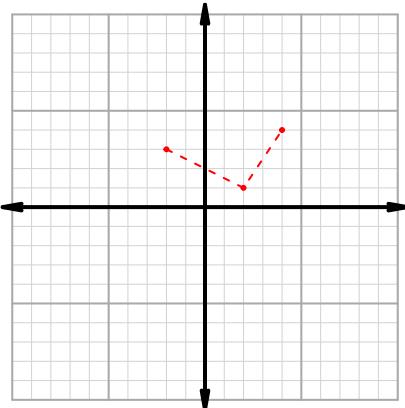
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

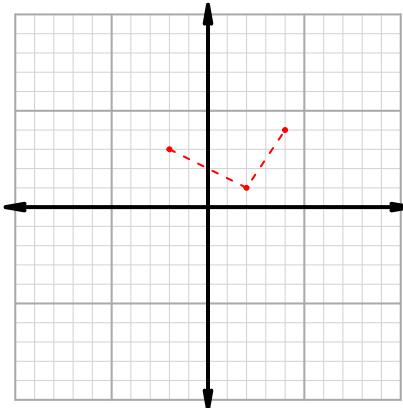
Intervals, Transformations, and Slope Practice (version 65)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

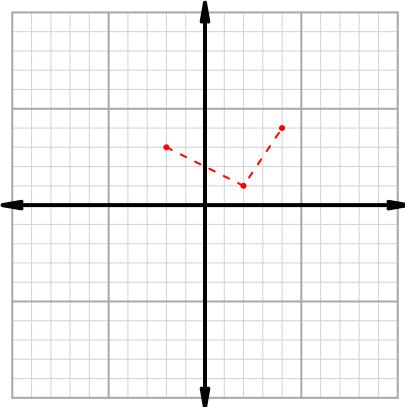
$$y = -2 \cdot f(x)$$



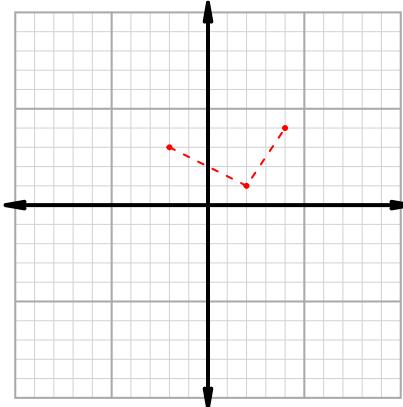
$$y = f(x + 2)$$



$$y = f(x) + 2$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 41$ and $x_2 = 49$. Express your answer as a reduced fraction.

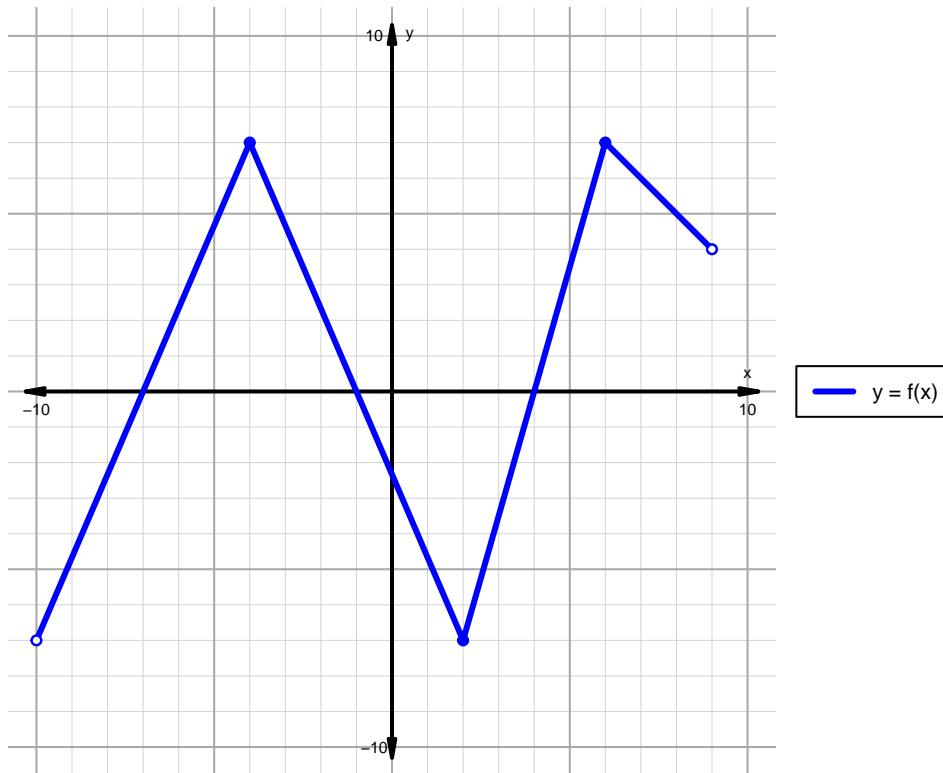
x	$g(x)$
6	41
34	49
41	34
49	6

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 66)

1. The function f is graphed below.



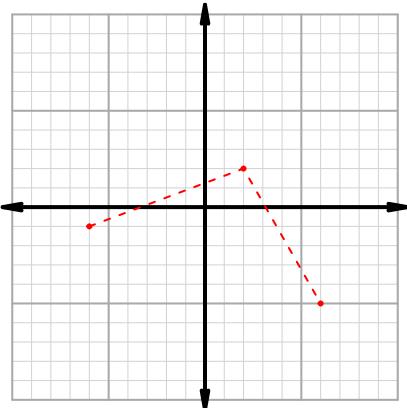
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

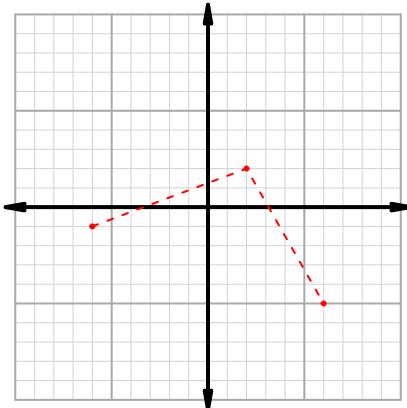
Intervals, Transformations, and Slope Practice (version 66)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

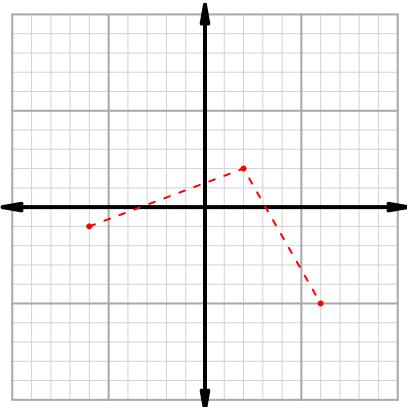
$$y = 2 \cdot f(x)$$



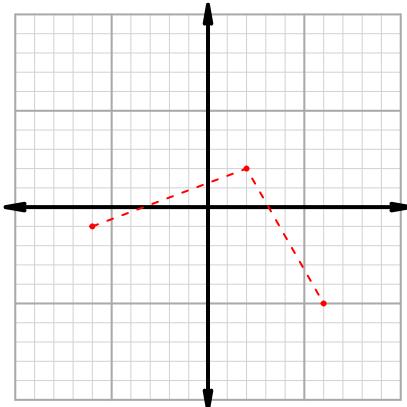
$$y = f(x - 2)$$



$$y = f(x) - 2$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 21$ and $x_2 = 77$. Express your answer as a reduced fraction.

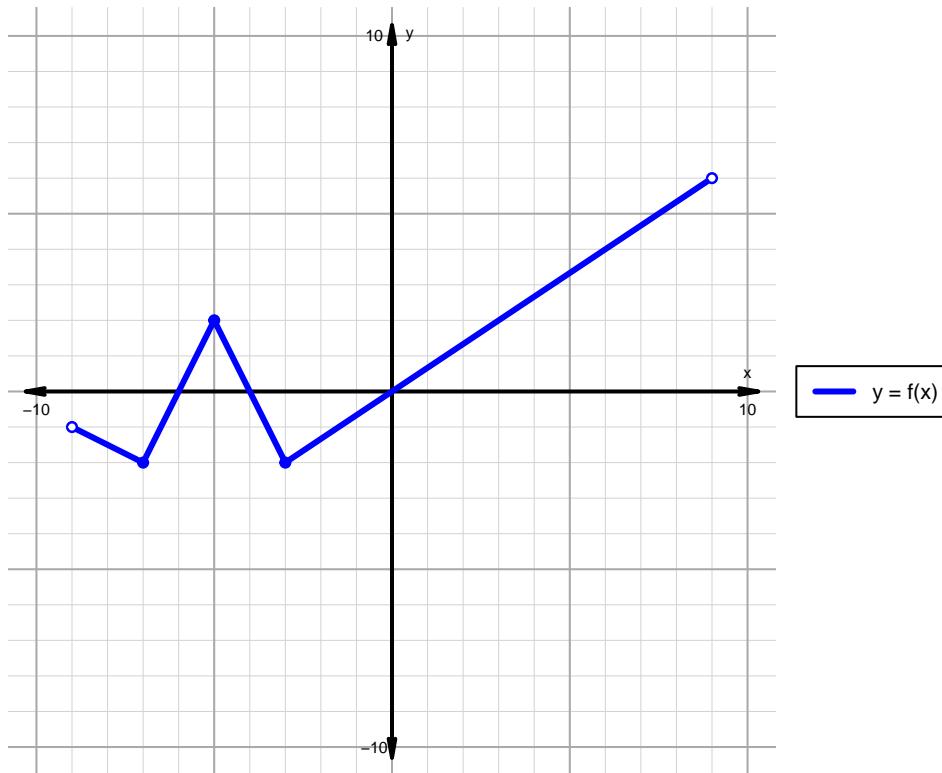
x	$g(x)$
21	54
54	77
62	21
77	62

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 67)

1. The function f is graphed below.



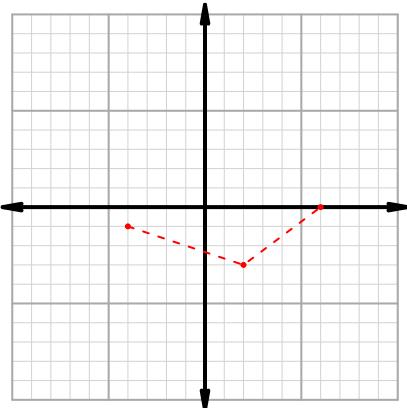
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

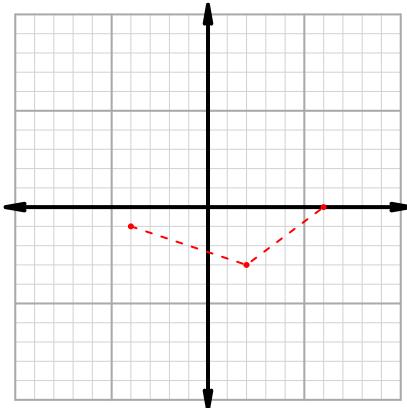
Intervals, Transformations, and Slope Practice (version 67)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

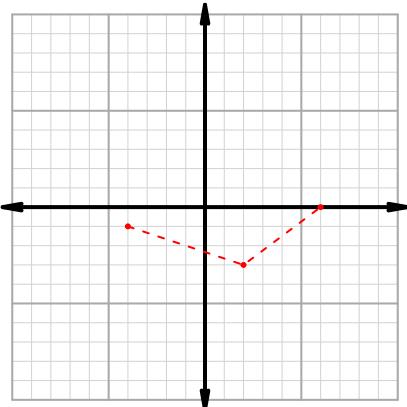
$$y = 2 \cdot f(x)$$



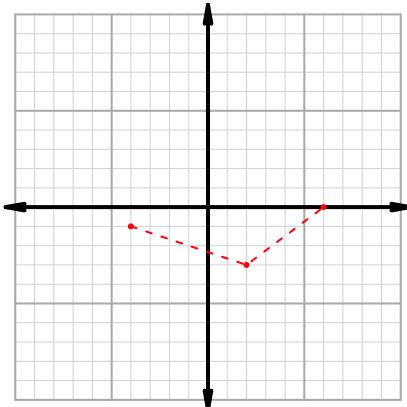
$$y = f(x + 2)$$



$$y = f(x) - 2$$



$$y = f(-2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 67$ and $x_2 = 81$. Express your answer as a reduced fraction.

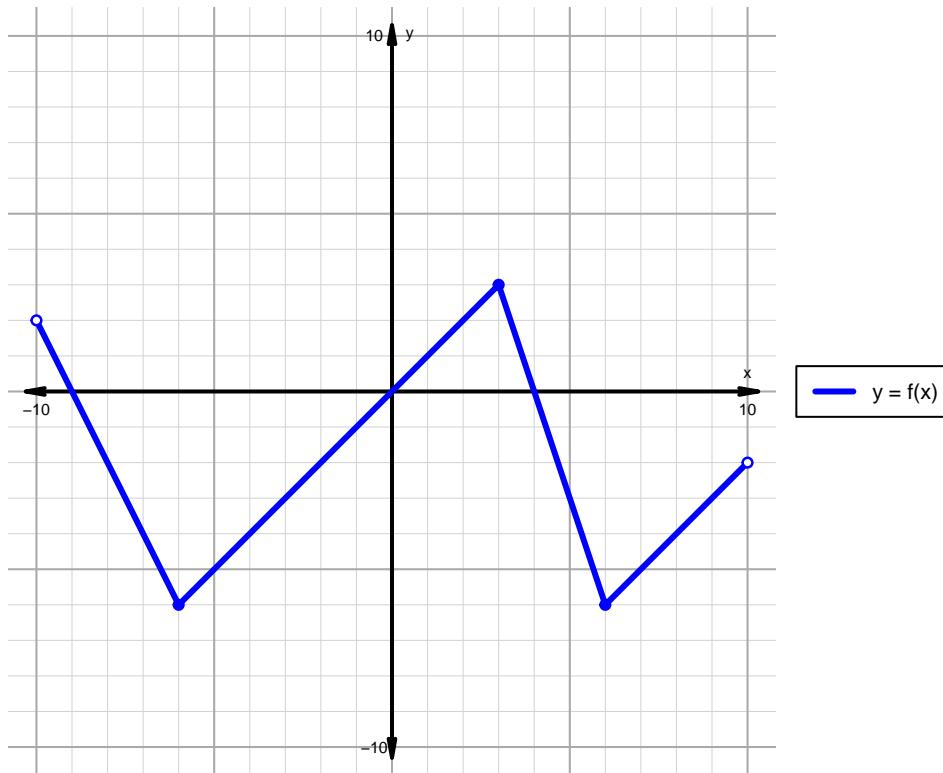
x	$g(x)$
33	67
35	81
67	35
81	33

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 68)

1. The function f is graphed below.



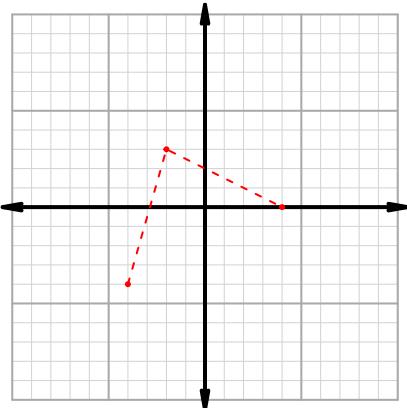
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

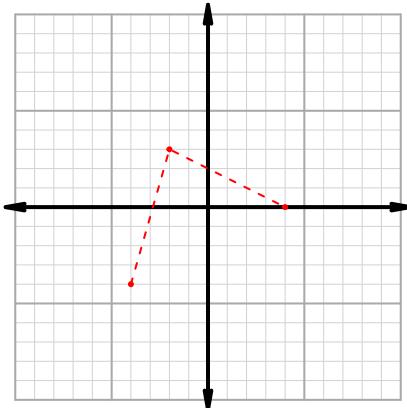
Intervals, Transformations, and Slope Practice (version 68)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

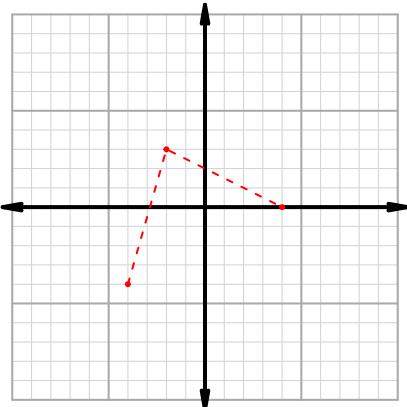
$$y = f(2 \cdot x)$$



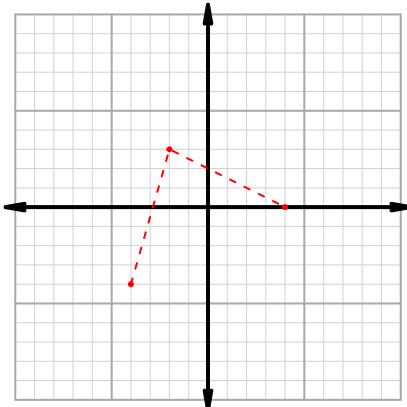
$$y = f(x) + 2$$



$$y = f(x+2)$$



$$y = -2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 32$ and $x_2 = 56$. Express your answer as a reduced fraction.

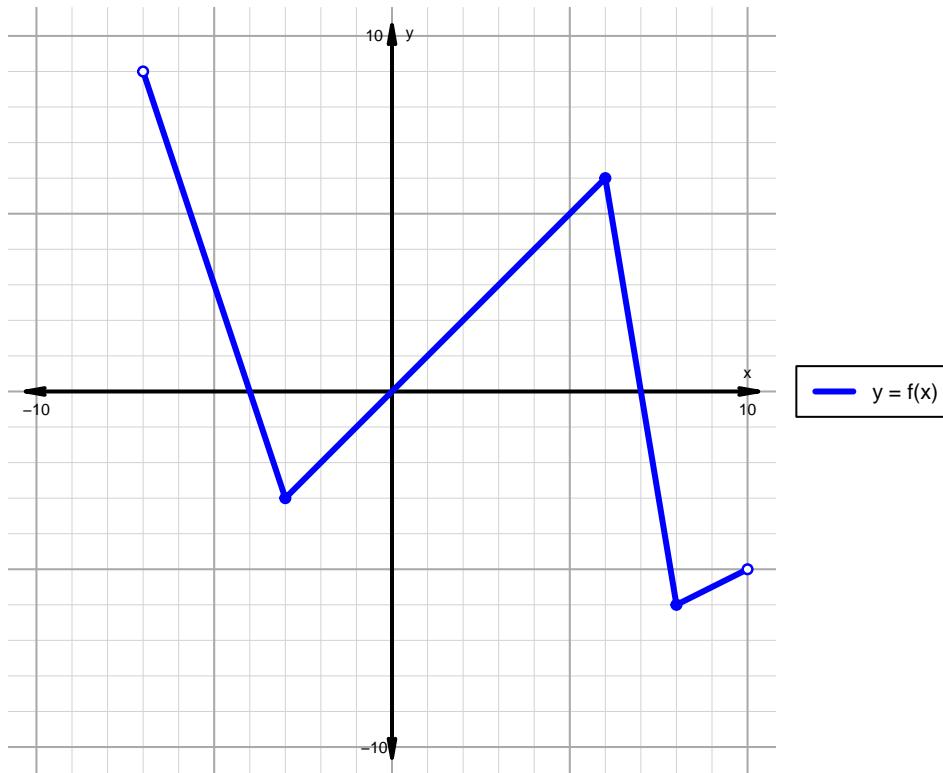
x	$g(x)$
32	96
56	87
87	32
96	56

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 69)

1. The function f is graphed below.



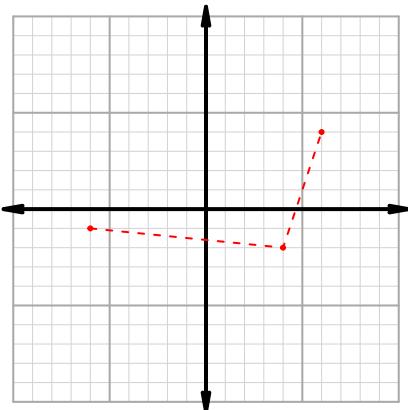
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

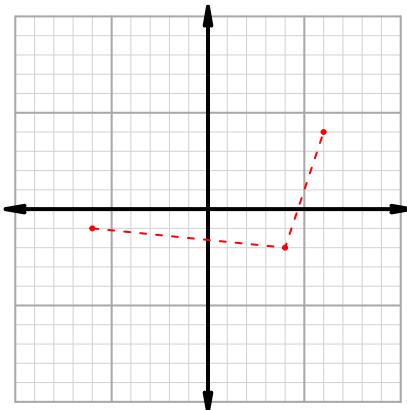
Intervals, Transformations, and Slope Practice (version 69)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

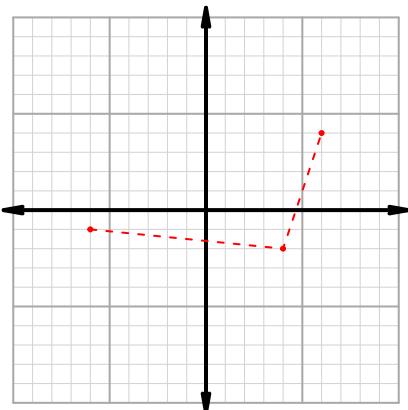
$$y = f(x) - 2$$



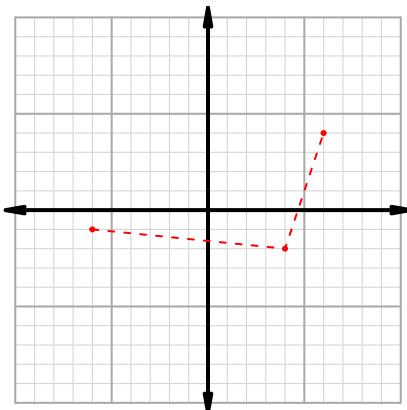
$$y = f(-2 \cdot x)$$



$$y = -2 \cdot f(x)$$



$$y = f(x+2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 36$ and $x_2 = 78$. Express your answer as a reduced fraction.

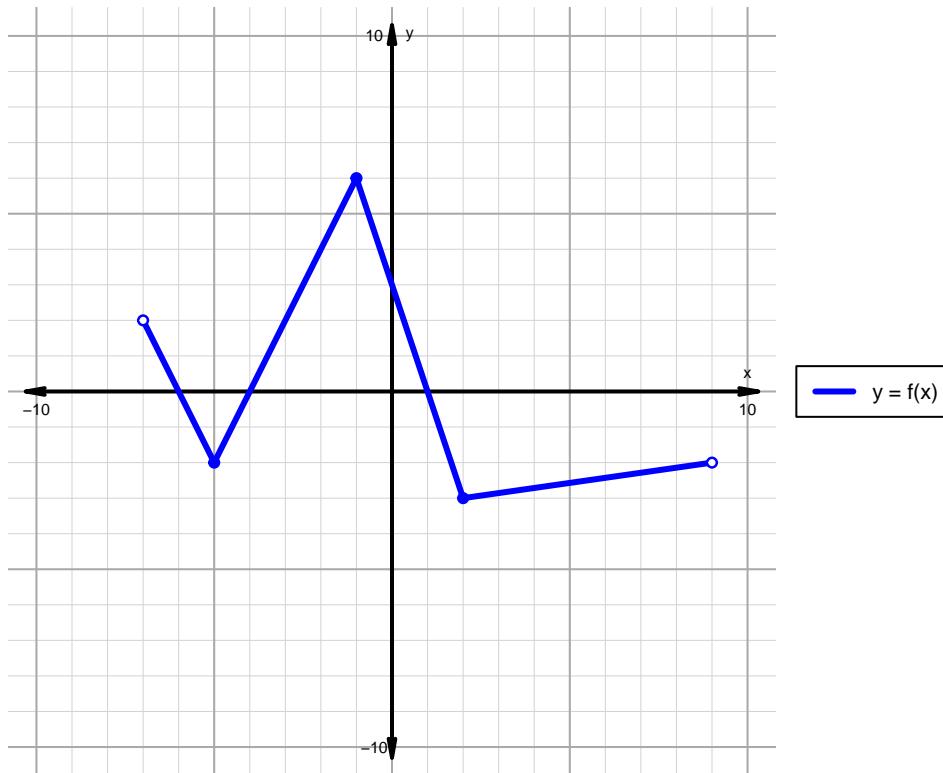
x	$g(x)$
4	36
34	78
36	34
78	4

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 70)

1. The function f is graphed below.



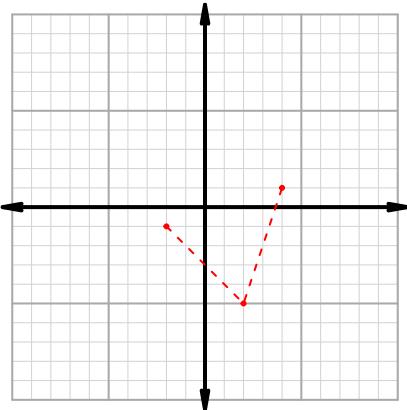
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

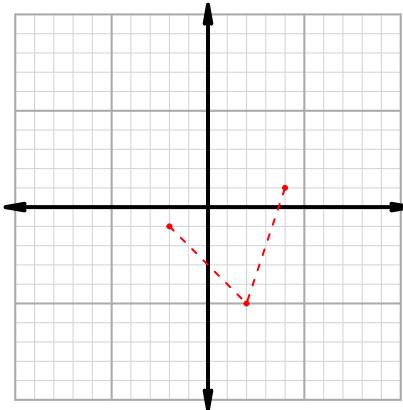
Intervals, Transformations, and Slope Practice (version 70)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

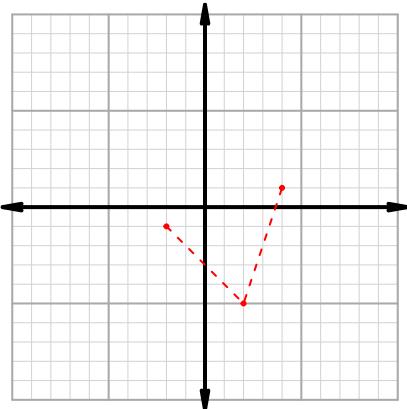
$$y = f(x) + 2$$



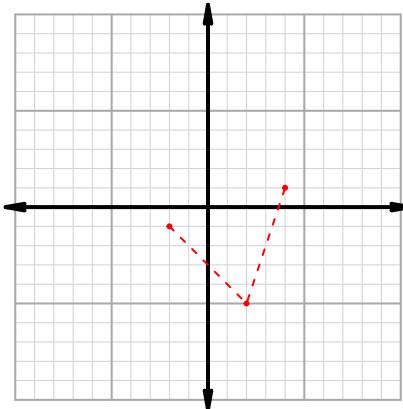
$$y = -2 \cdot f(x)$$



$$y = f(x - 2)$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 45$ and $x_2 = 87$. Express your answer as a reduced fraction.

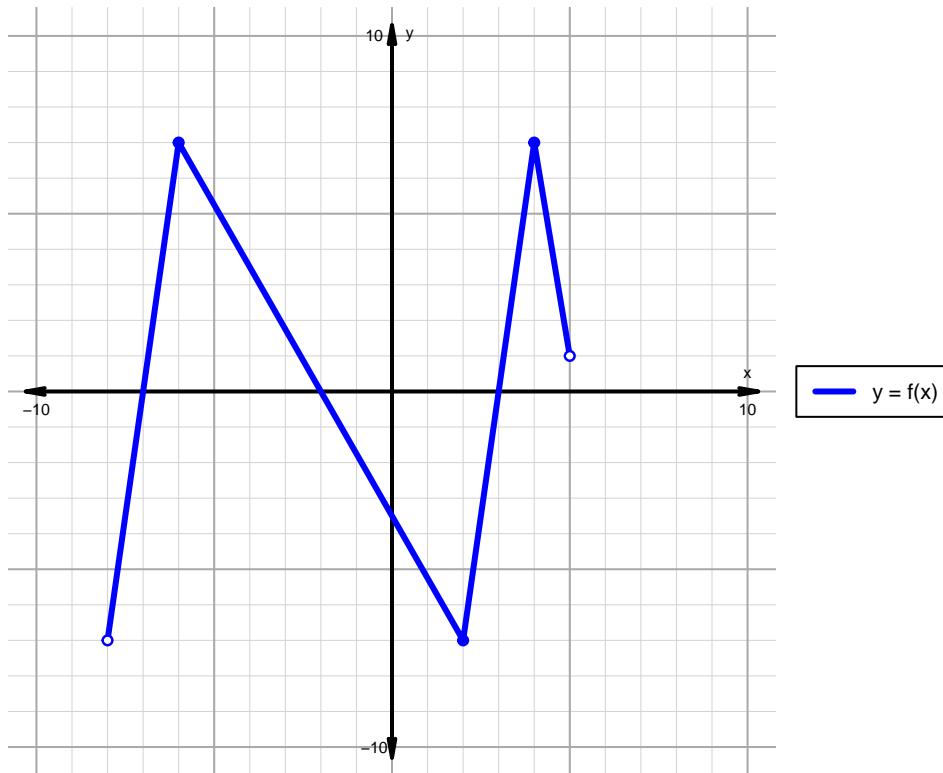
x	$g(x)$
39	87
45	39
57	45
87	57

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 71)

1. The function f is graphed below.



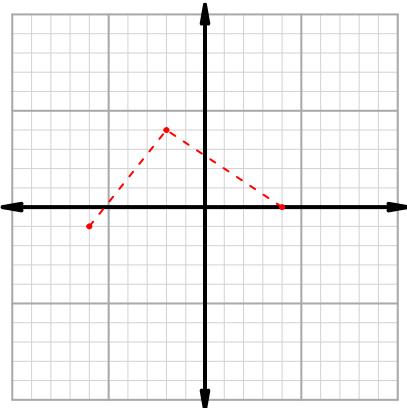
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

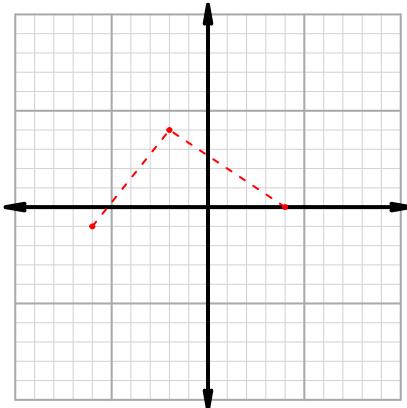
Intervals, Transformations, and Slope Practice (version 71)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

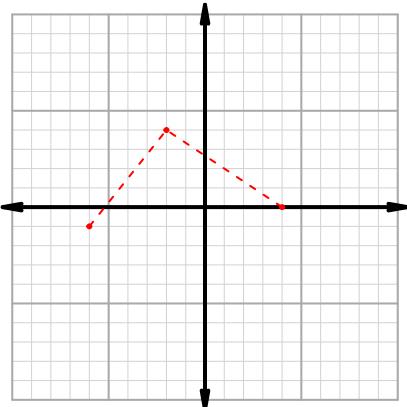
$$y = f(x - 2)$$



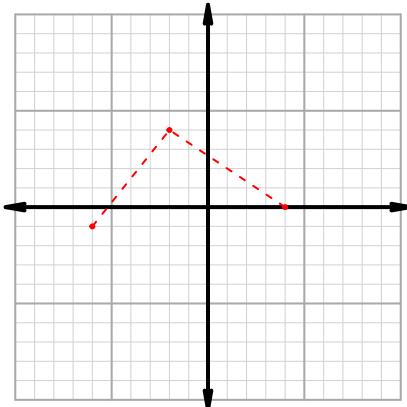
$$y = f(2 \cdot x)$$



$$y = 2 \cdot f(x)$$



$$y = f(x) + 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 31$ and $x_2 = 76$. Express your answer as a reduced fraction.

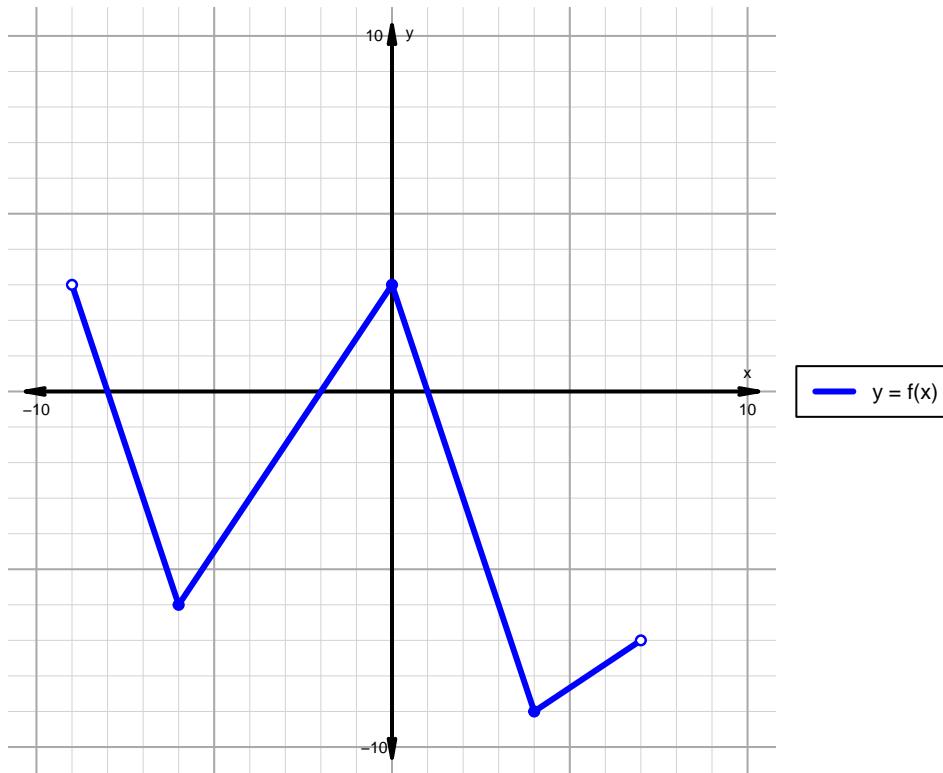
x	$g(x)$
31	63
53	31
63	76
76	53

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 72)

1. The function f is graphed below.



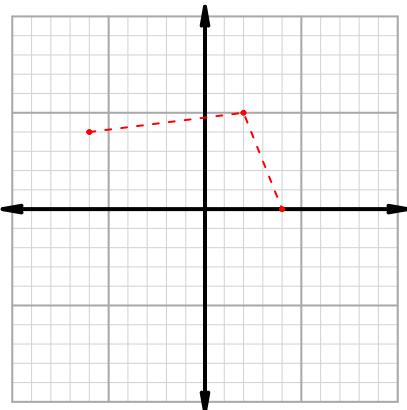
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

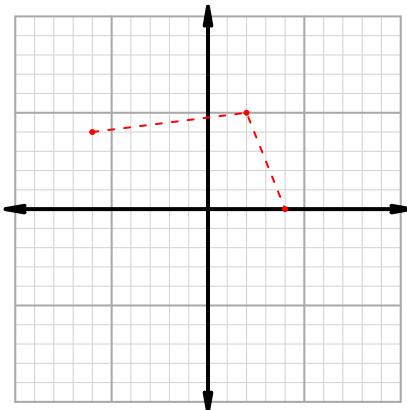
Intervals, Transformations, and Slope Practice (version 72)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

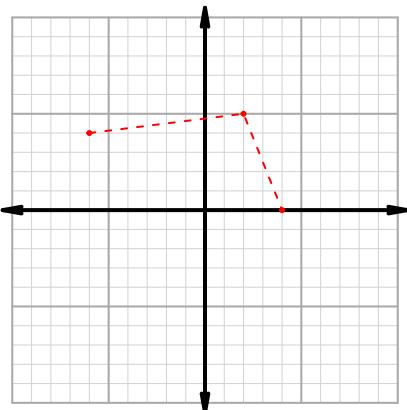
$$y = f(x) + 2$$



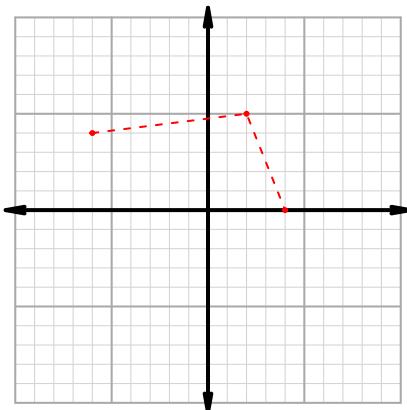
$$y = f(x + 2)$$



$$y = f(-2 \cdot x)$$



$$y = 2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 34$ and $x_2 = 79$. Express your answer as a reduced fraction.

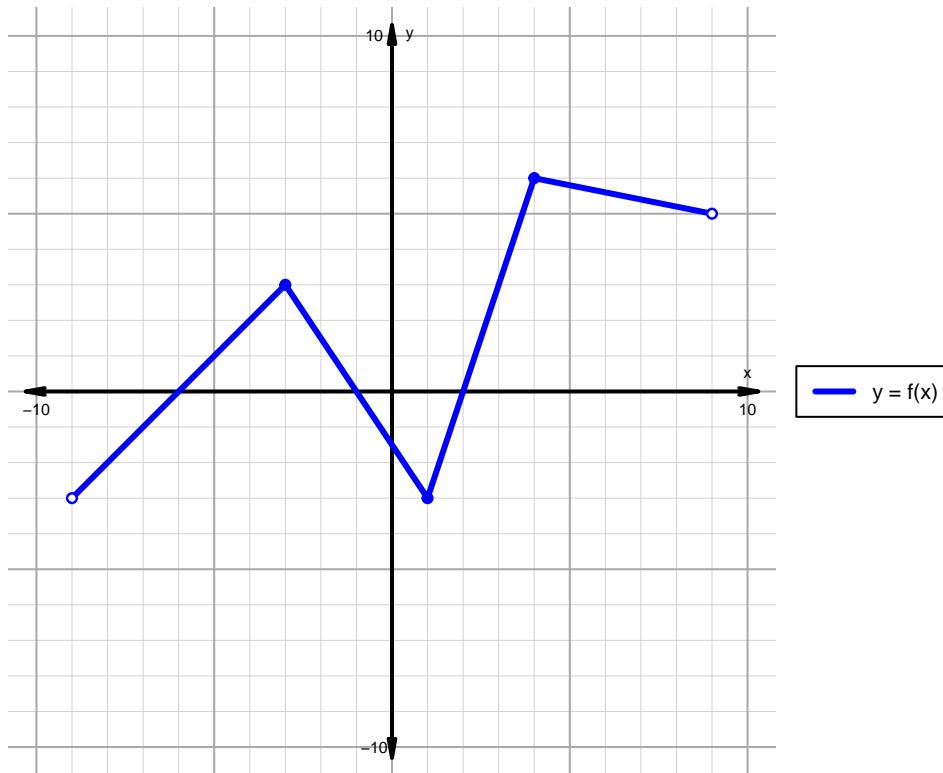
x	$g(x)$
18	79
34	18
45	34
79	45

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 73)

1. The function f is graphed below.



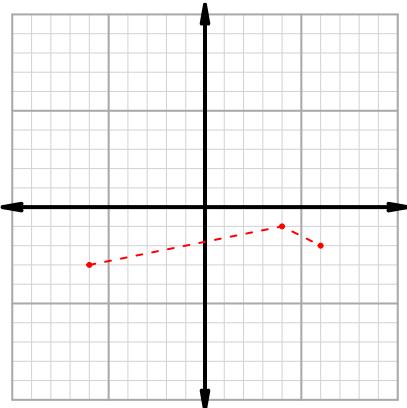
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

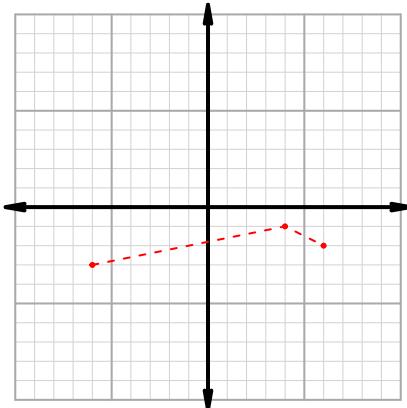
Intervals, Transformations, and Slope Practice (version 73)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

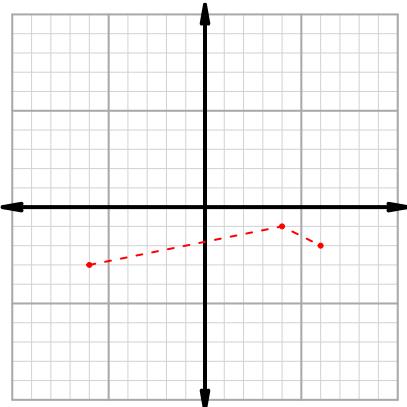
$$y = f(2 \cdot x)$$



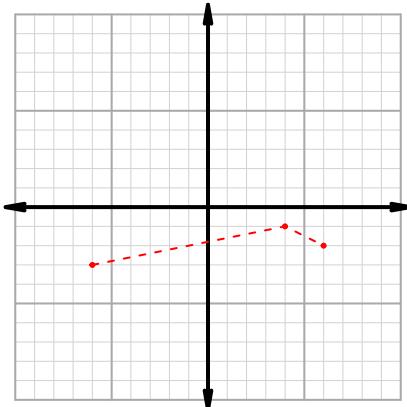
$$y = f(x) + 2$$



$$y = -2 \cdot f(x)$$



$$y = f(x+2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 77$ and $x_2 = 81$. Express your answer as a reduced fraction.

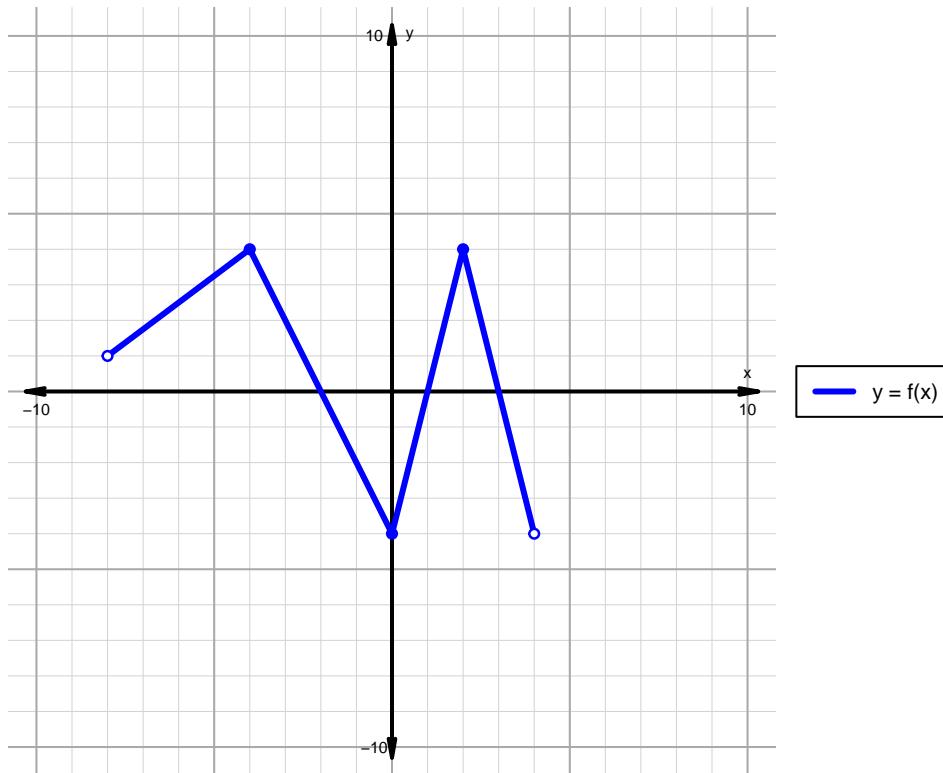
x	$g(x)$
30	77
40	81
77	40
81	30

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 74)

1. The function f is graphed below.



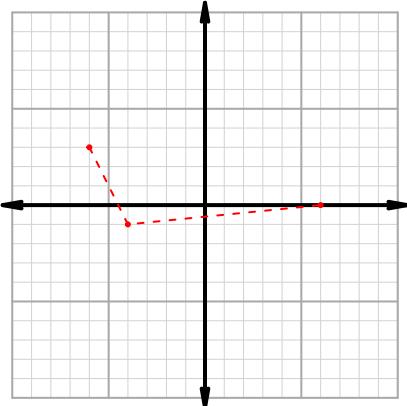
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

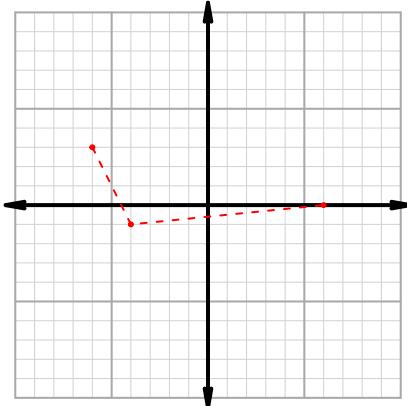
Intervals, Transformations, and Slope Practice (version 74)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

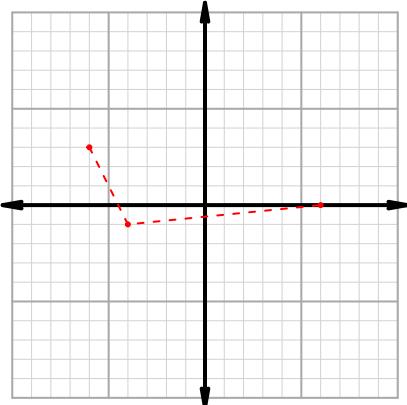
$$y = f(2 \cdot x)$$



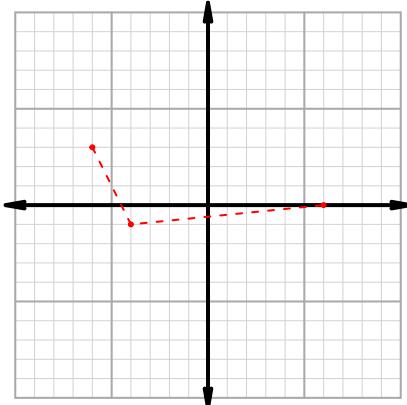
$$y = f(x + 2)$$



$$y = -2 \cdot f(x)$$



$$y = f(x) + 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 28$ and $x_2 = 77$. Express your answer as a reduced fraction.

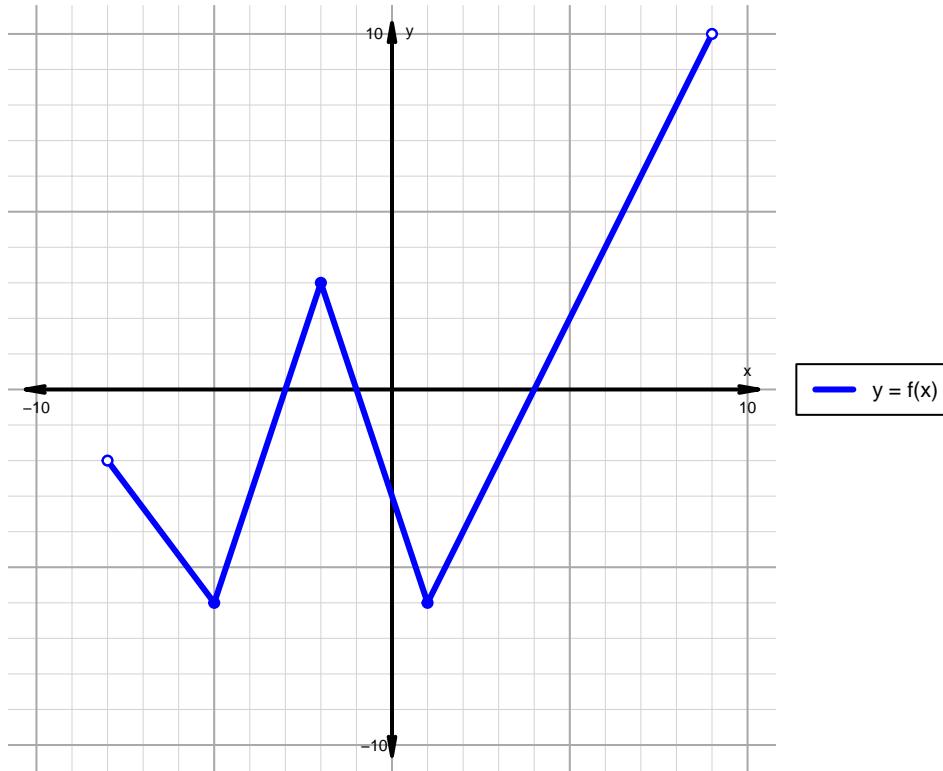
x	$g(x)$
28	60
60	77
77	81
81	28

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 75)

1. The function f is graphed below.



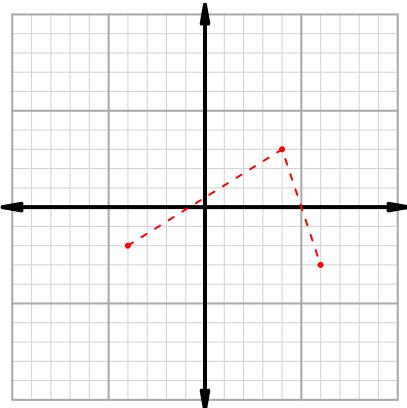
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

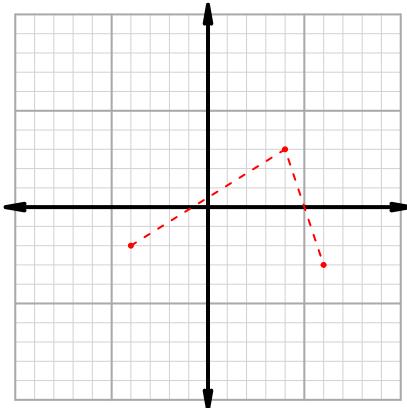
Intervals, Transformations, and Slope Practice (version 75)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

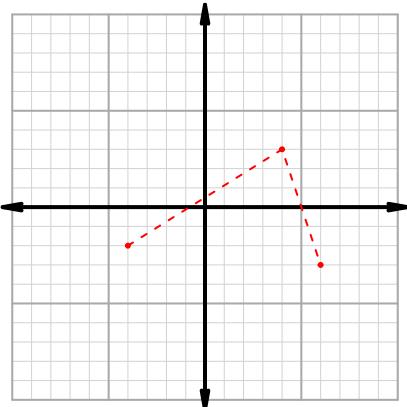
$$y = f(x) + 2$$



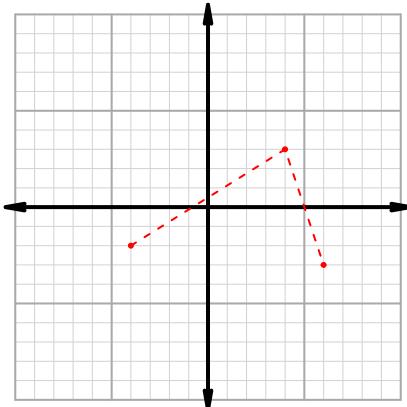
$$y = -2 \cdot f(x)$$



$$y = f(x + 2)$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 31$ and $x_2 = 73$. Express your answer as a reduced fraction.

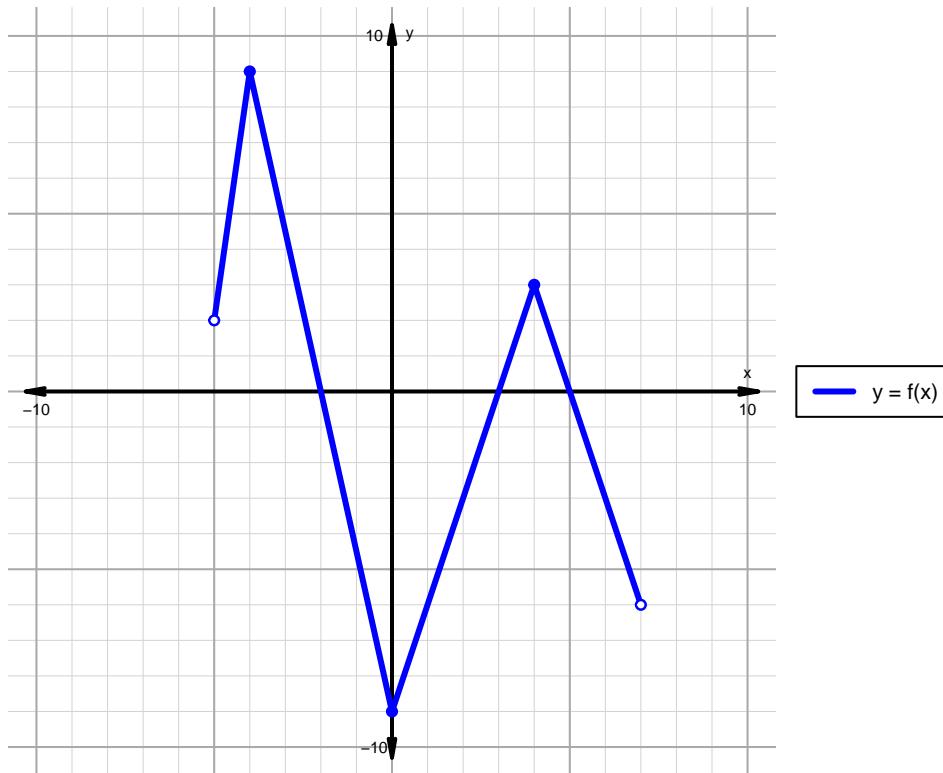
x	$g(x)$
31	69
34	31
69	73
73	34

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 76)

1. The function f is graphed below.



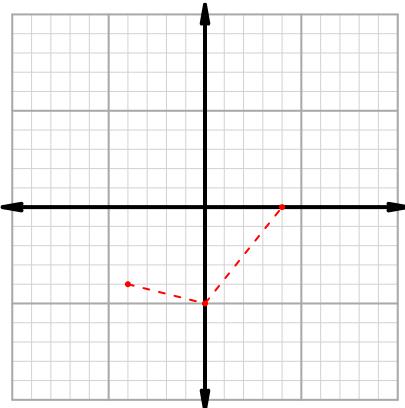
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

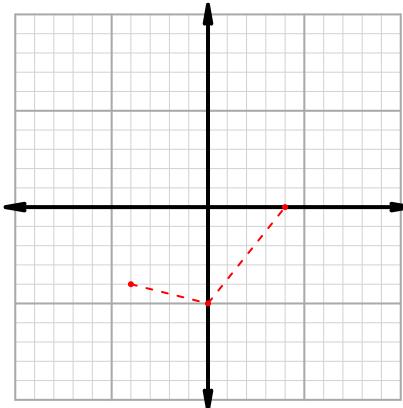
Intervals, Transformations, and Slope Practice (version 76)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

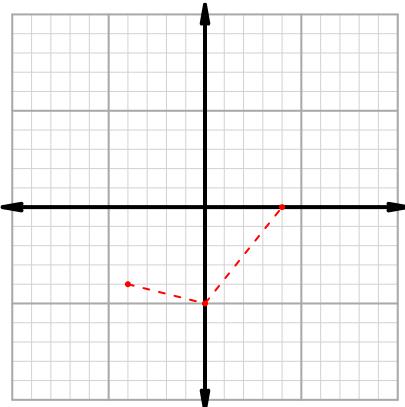
$$y = -2 \cdot f(x)$$



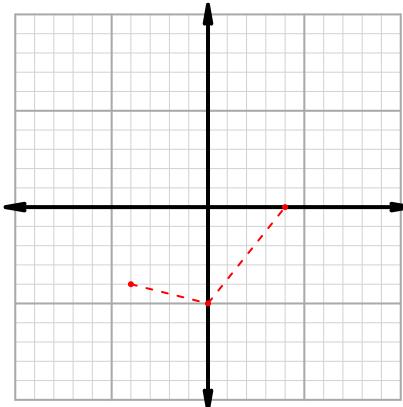
$$y = f(2 \cdot x)$$



$$y = f(x - 2)$$



$$y = f(x) + 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 35$ and $x_2 = 75$. Express your answer as a reduced fraction.

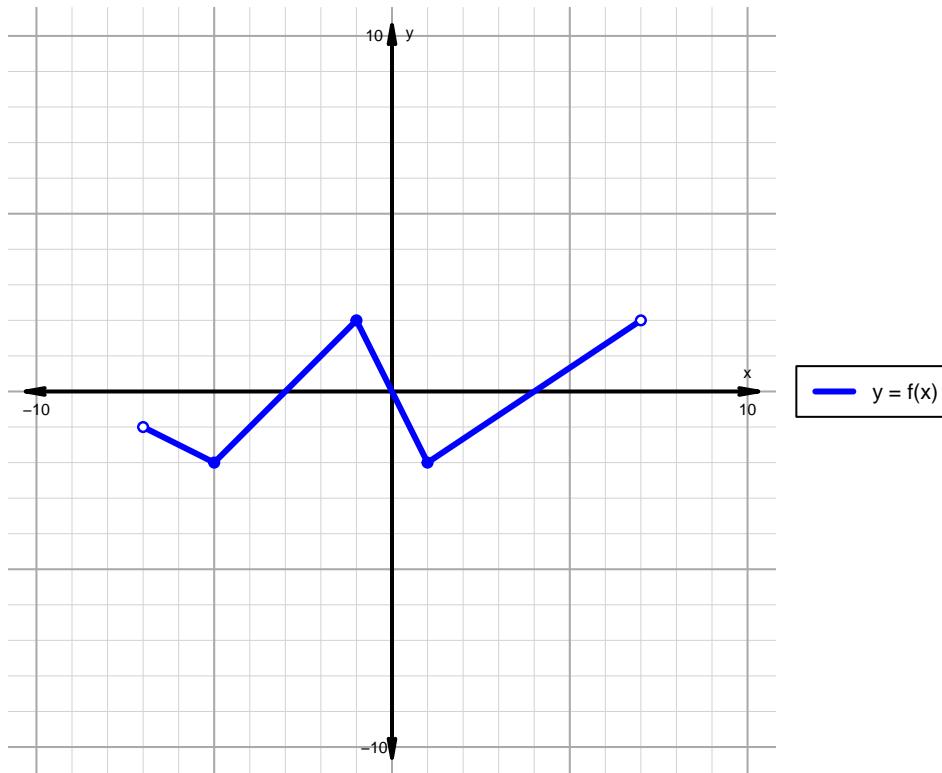
x	$g(x)$
35	55
55	75
75	80
80	35

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 77)

1. The function f is graphed below.



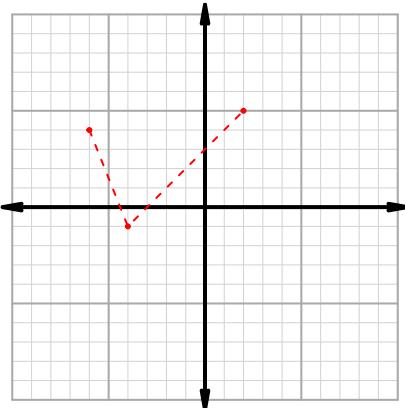
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

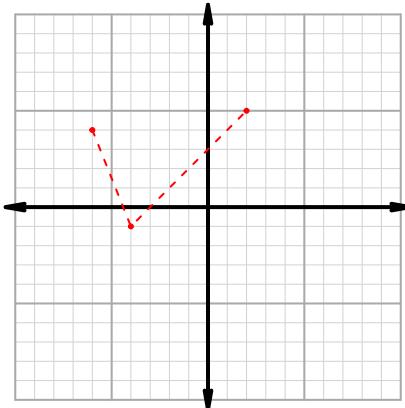
Intervals, Transformations, and Slope Practice (version 77)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

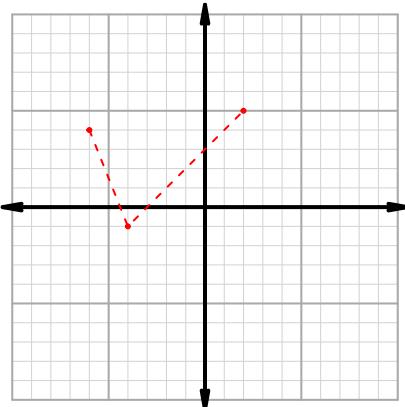
$$y = f(2 \cdot x)$$



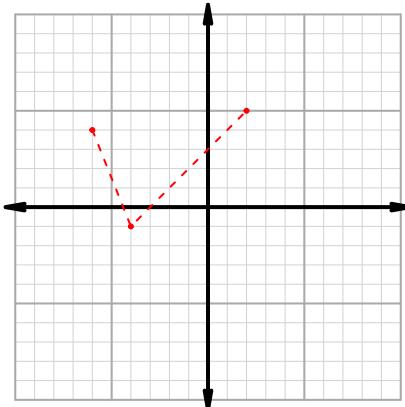
$$y = f(x - 2)$$



$$y = f(x) + 2$$



$$y = 2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 19$ and $x_2 = 46$. Express your answer as a reduced fraction.

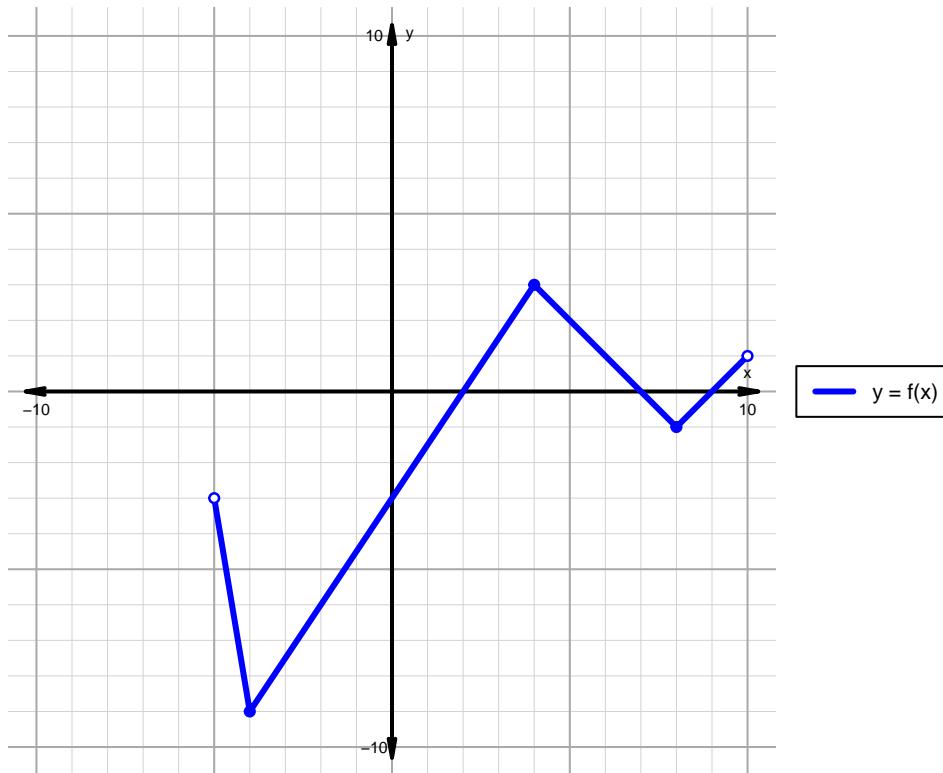
x	$g(x)$
14	19
19	77
46	14
77	46

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 78)

1. The function f is graphed below.



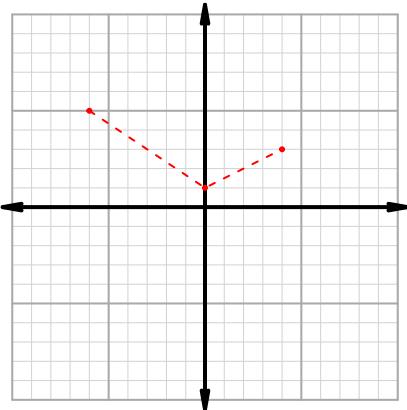
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

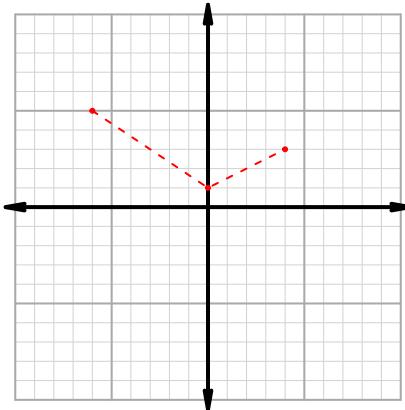
Intervals, Transformations, and Slope Practice (version 78)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

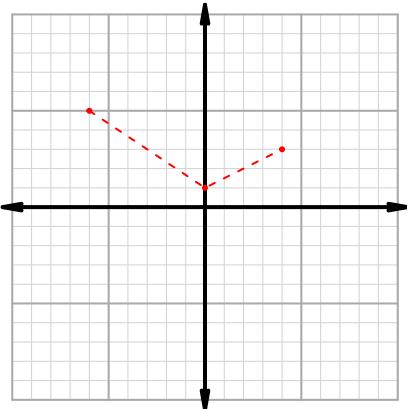
$$y = 2 \cdot f(x)$$



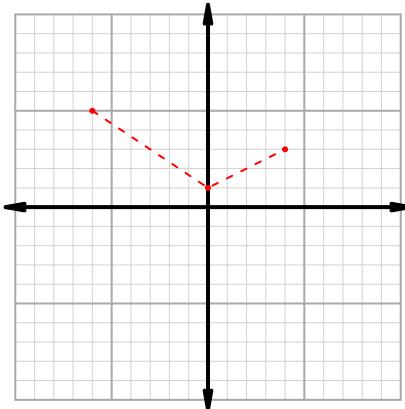
$$y = f(x) - 2$$



$$y = f(x + 2)$$



$$y = f(-2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 15$ and $x_2 = 30$. Express your answer as a reduced fraction.

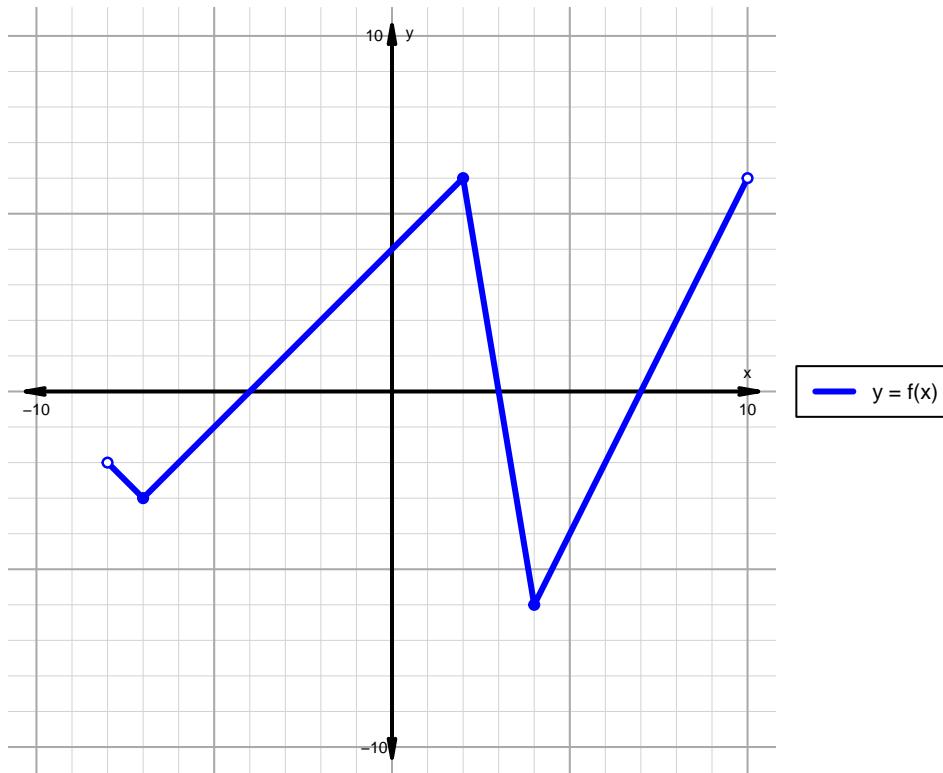
x	$g(x)$
15	95
30	68
68	15
95	30

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 79)

1. The function f is graphed below.



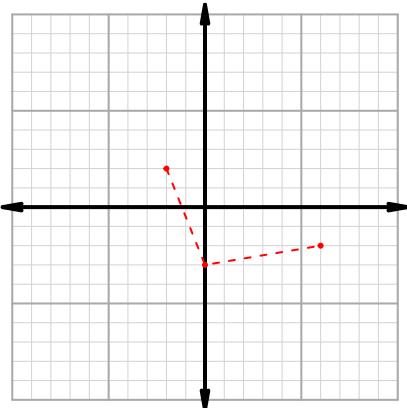
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

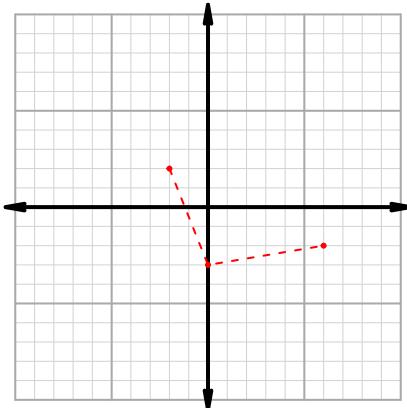
Intervals, Transformations, and Slope Practice (version 79)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

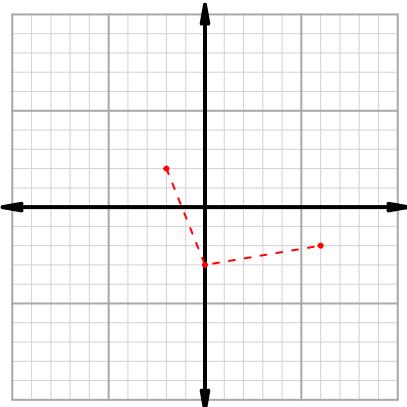
$$y = f(2 \cdot x)$$



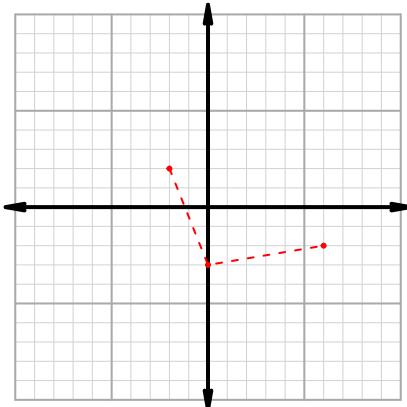
$$y = f(x) - 2$$



$$y = 2 \cdot f(x)$$



$$y = f(x - 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 47$ and $x_2 = 65$. Express your answer as a reduced fraction.

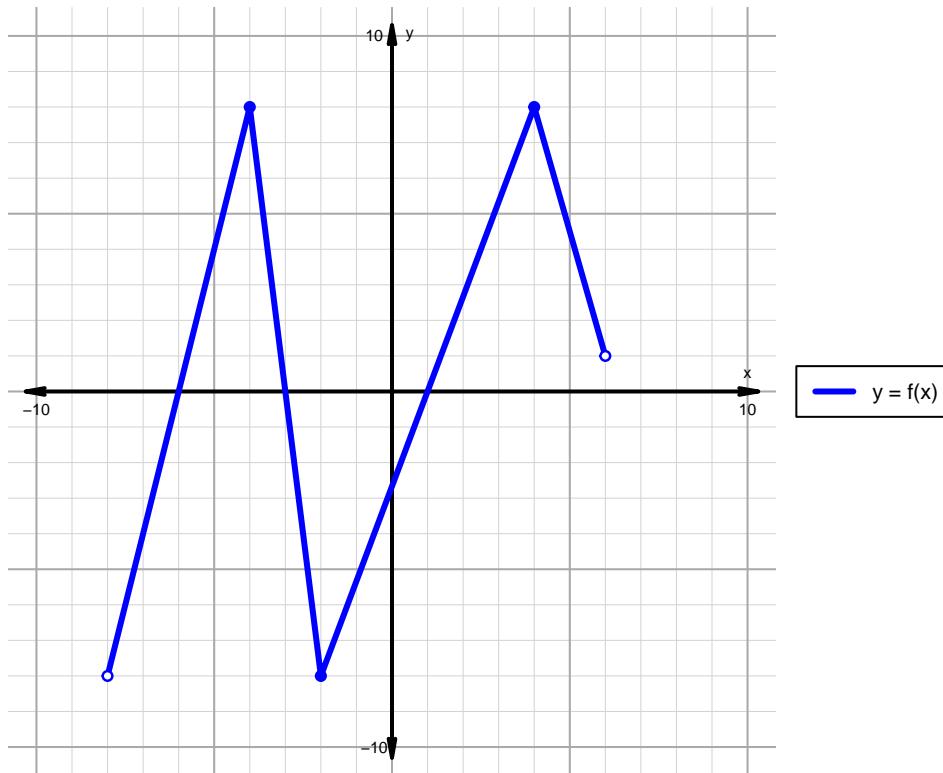
x	$g(x)$
7	47
28	65
47	28
65	7

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 80)

1. The function f is graphed below.



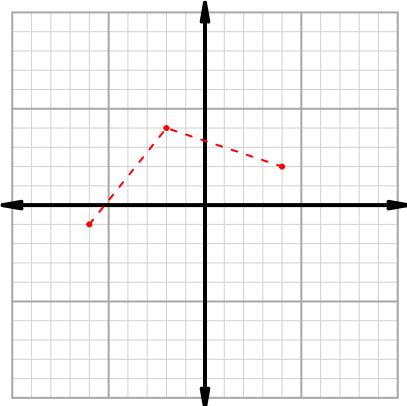
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

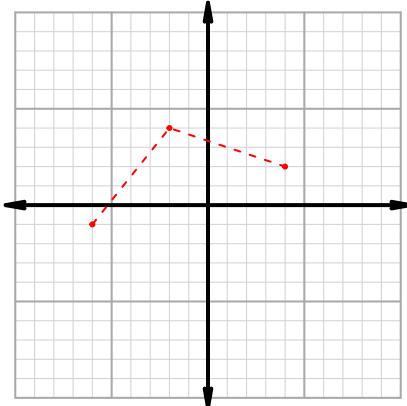
Intervals, Transformations, and Slope Practice (version 80)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

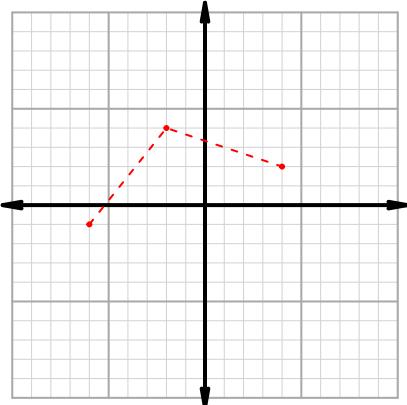
$$y = -2 \cdot f(x)$$



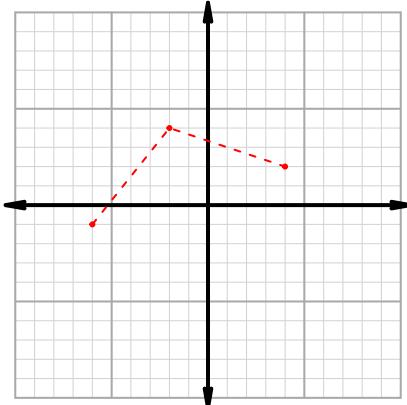
$$y = f(-2 \cdot x)$$



$$y = f(x) + 2$$



$$y = f(x+2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 40$ and $x_2 = 80$. Express your answer as a reduced fraction.

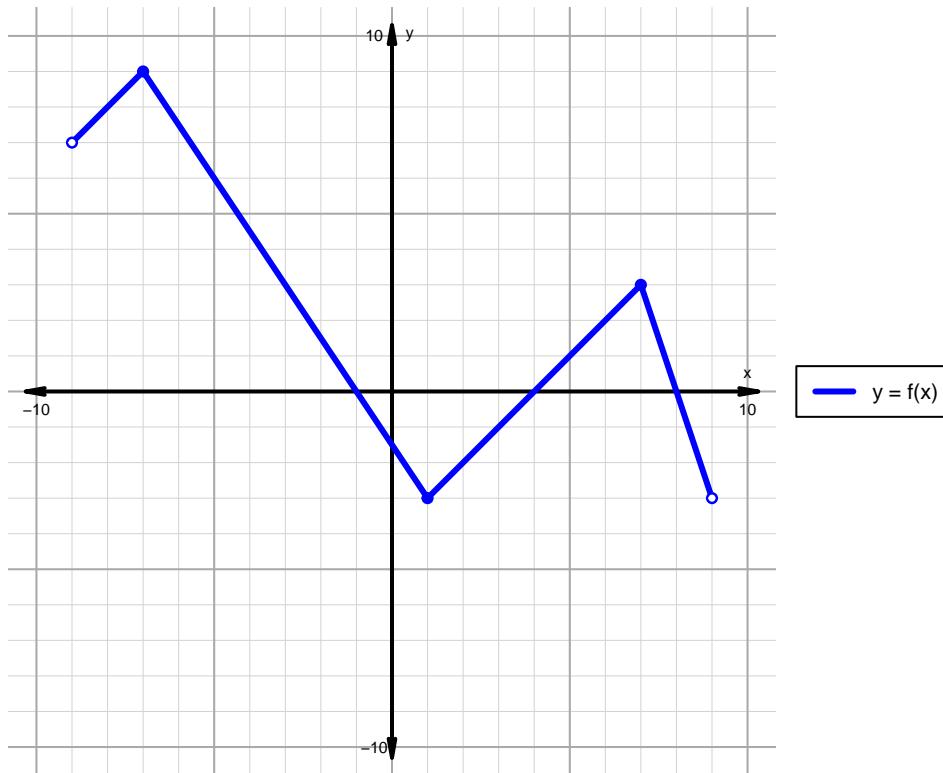
x	$g(x)$
20	80
40	20
76	40
80	76

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 81)

1. The function f is graphed below.



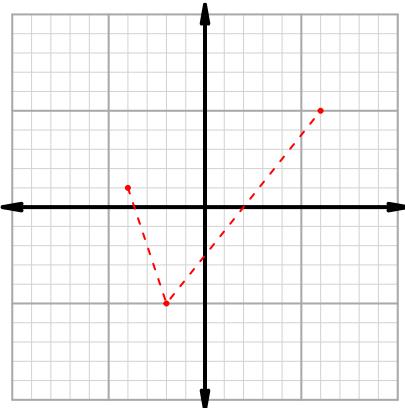
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

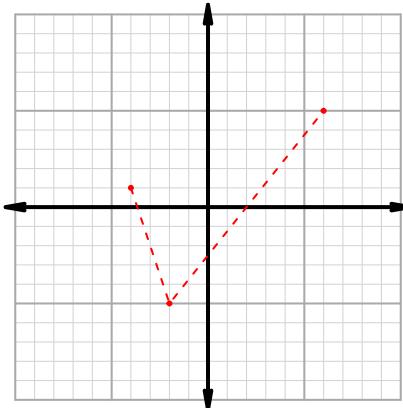
Intervals, Transformations, and Slope Practice (version 81)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

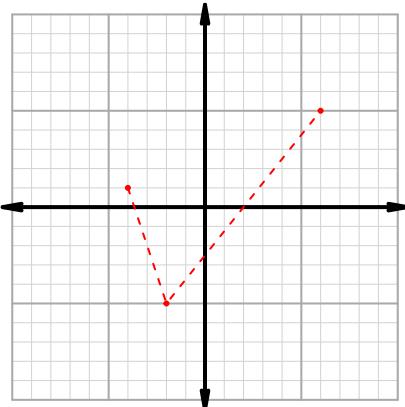
$$y = f(-2 \cdot x)$$



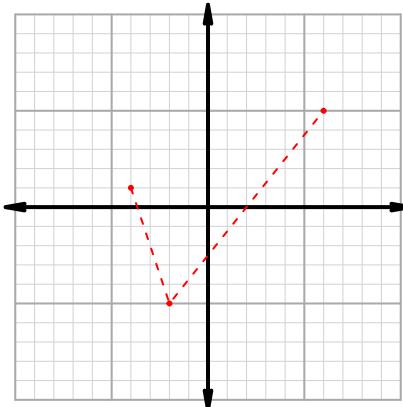
$$y = f(x) + 2$$



$$y = f(x - 2)$$



$$y = 2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 47$ and $x_2 = 62$. Express your answer as a reduced fraction.

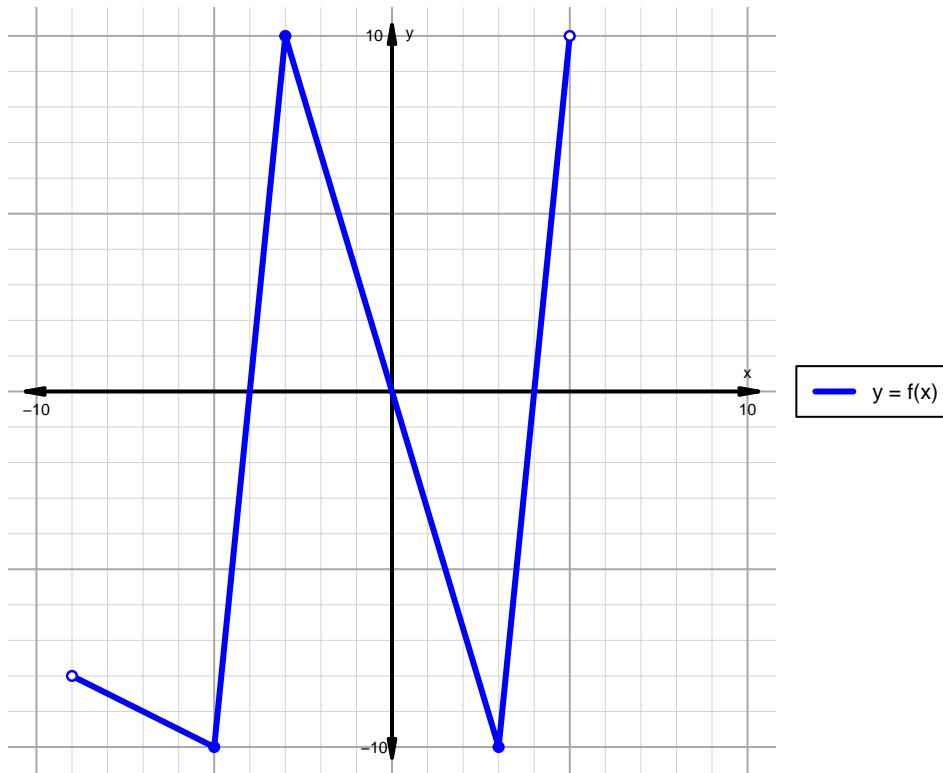
x	$g(x)$
47	78
51	47
62	51
78	62

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 82)

1. The function f is graphed below.



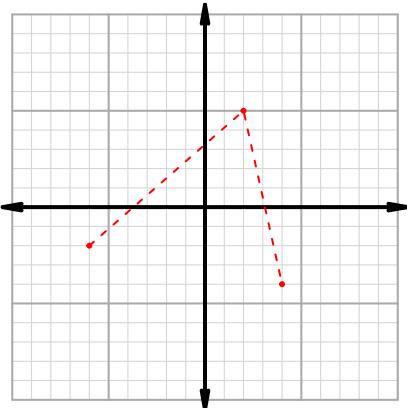
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

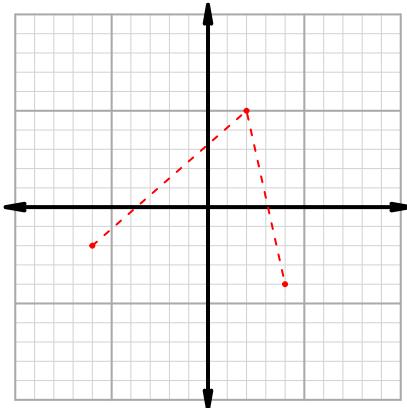
Intervals, Transformations, and Slope Practice (version 82)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

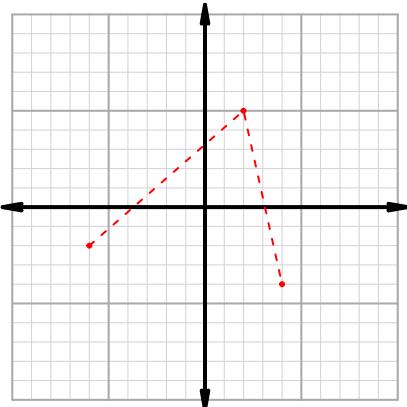
$$y = f(x) + 2$$



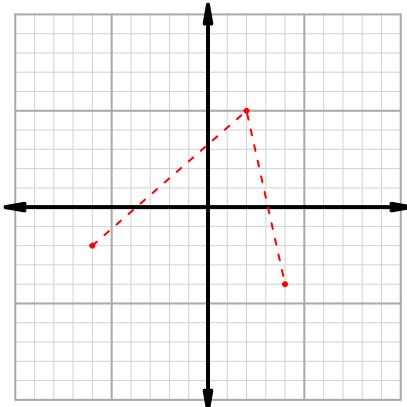
$$y = f(x + 2)$$



$$y = -2 \cdot f(x)$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 33$ and $x_2 = 61$. Express your answer as a reduced fraction.

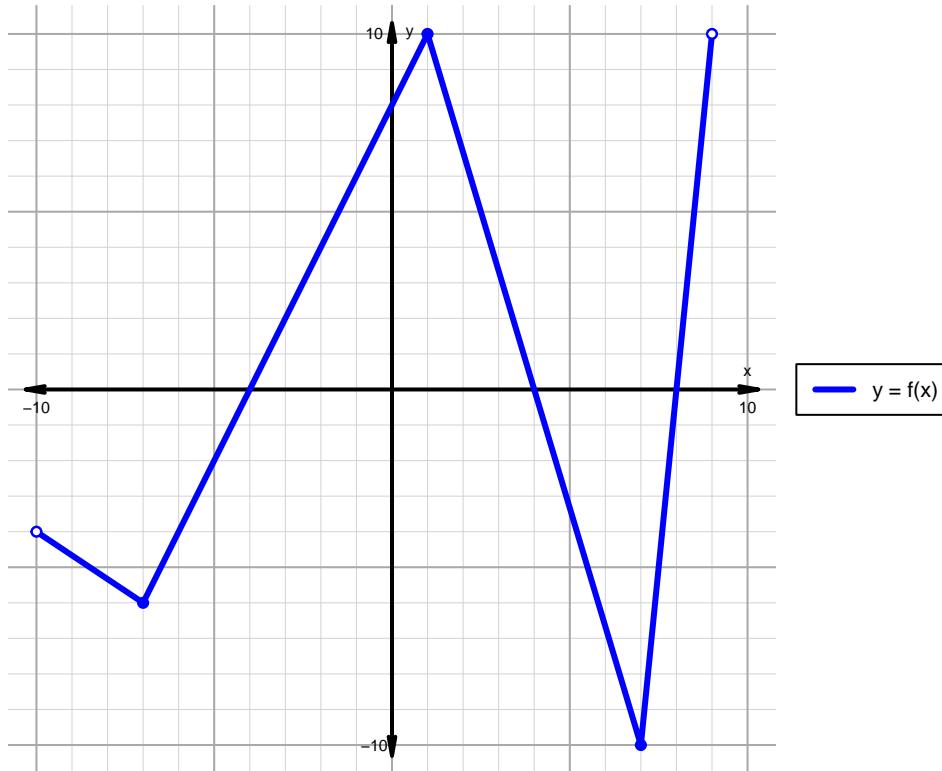
x	$g(x)$
13	33
33	49
49	61
61	13

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 83)

1. The function f is graphed below.



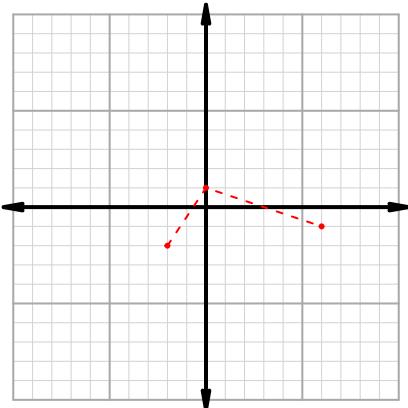
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

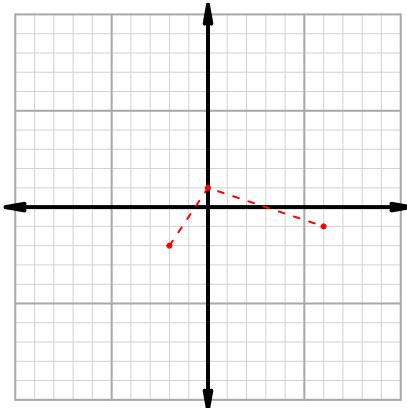
Intervals, Transformations, and Slope Practice (version 83)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

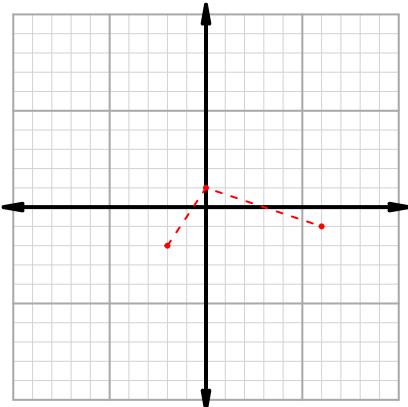
$$y = f(x+2)$$



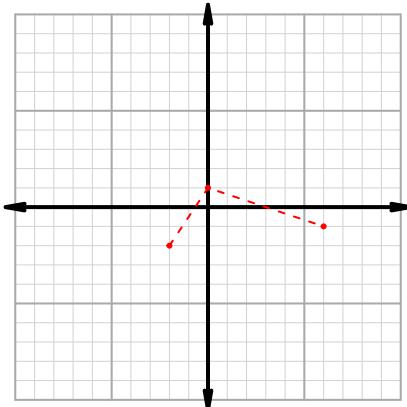
$$y = f(x) - 2$$



$$y = -2 \cdot f(x)$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 36$ and $x_2 = 54$. Express your answer as a reduced fraction.

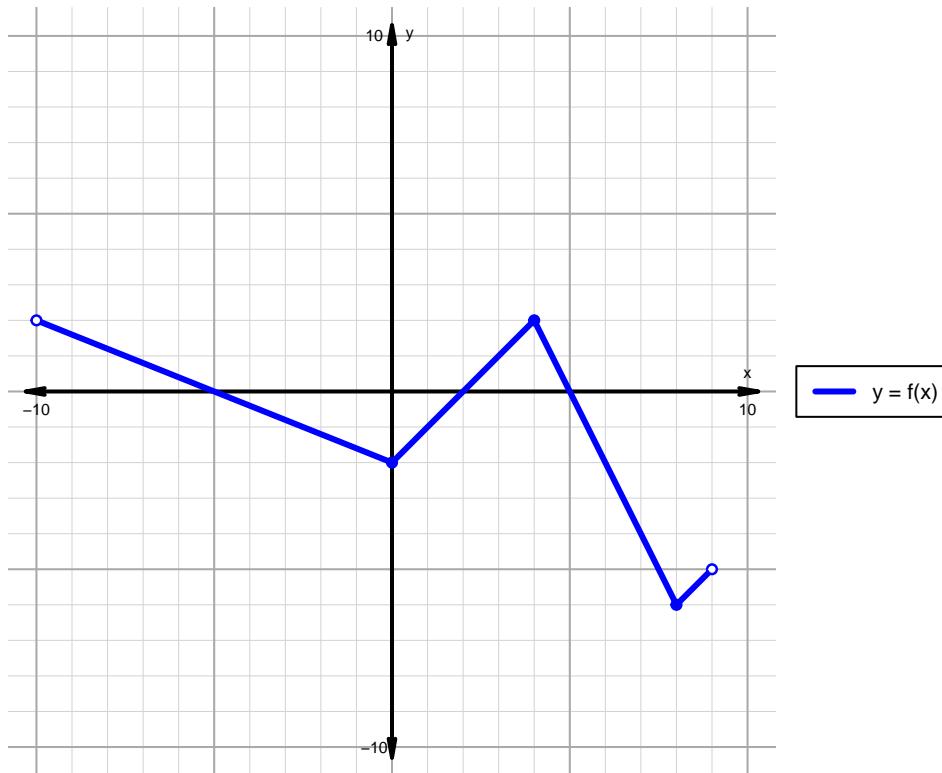
x	$g(x)$
31	36
36	58
54	31
58	54

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 84)

1. The function f is graphed below.



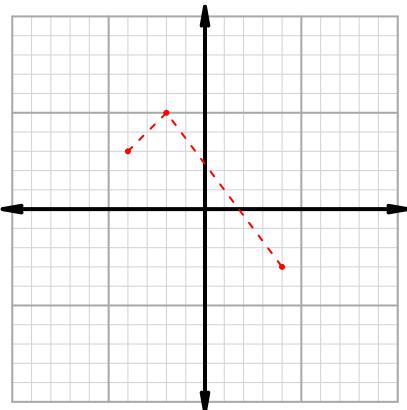
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

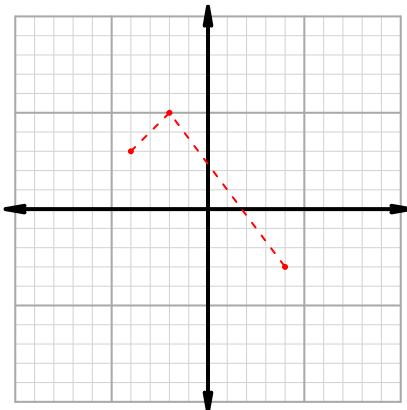
Intervals, Transformations, and Slope Practice (version 84)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

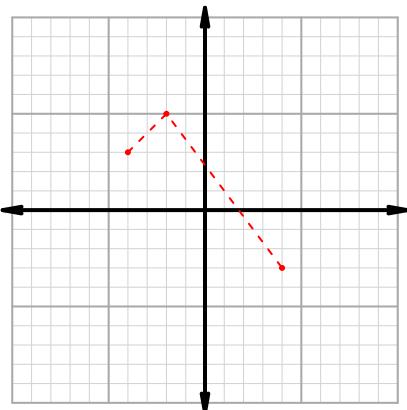
$$y = f(x) + 2$$



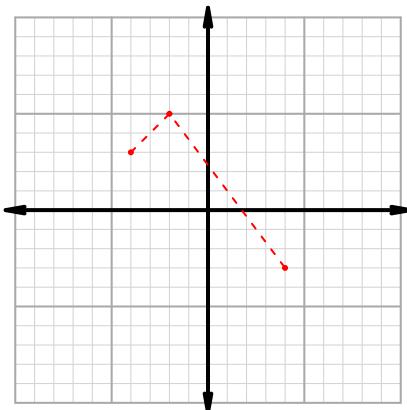
$$y = f(-2 \cdot x)$$



$$y = f(x + 2)$$



$$y = 2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 30$ and $x_2 = 62$. Express your answer as a reduced fraction.

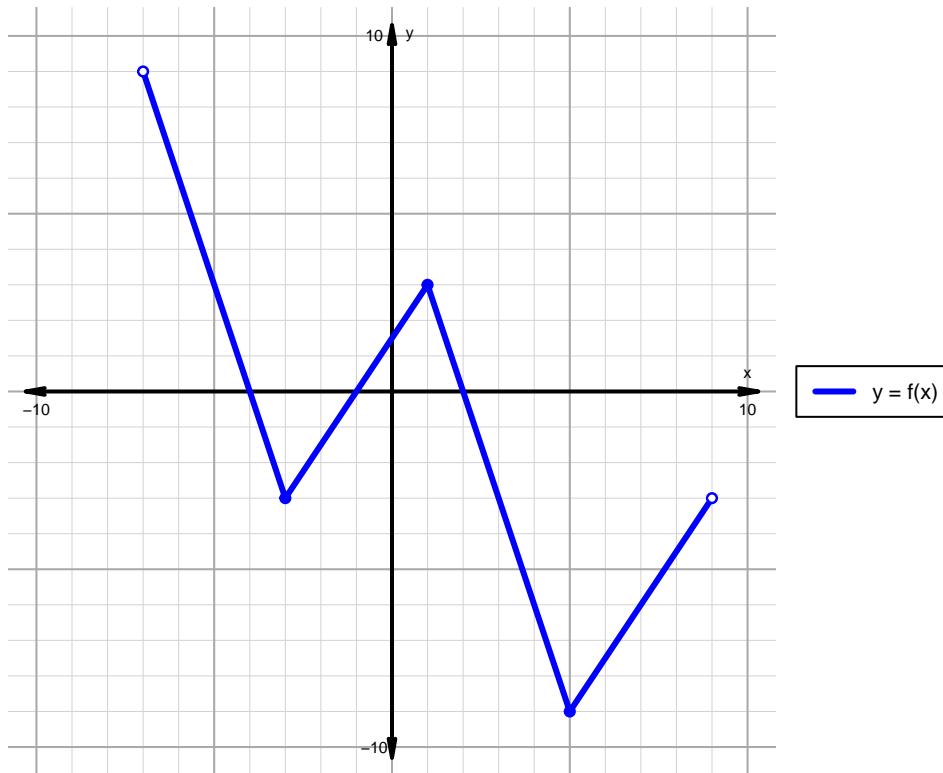
x	$g(x)$
9	30
30	81
62	9
81	62

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 85)

1. The function f is graphed below.



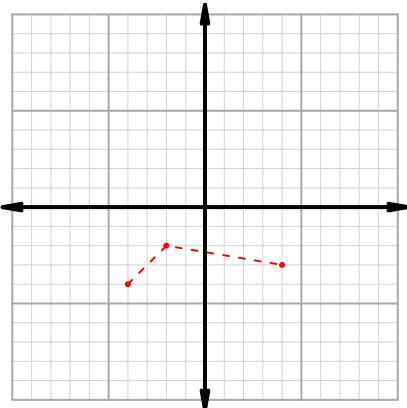
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

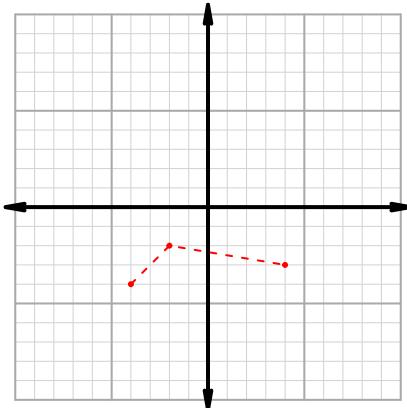
Intervals, Transformations, and Slope Practice (version 85)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

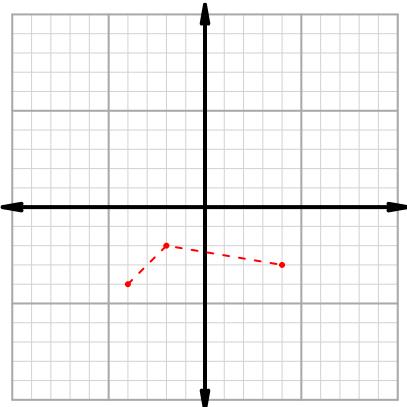
$$y = f(x+2)$$



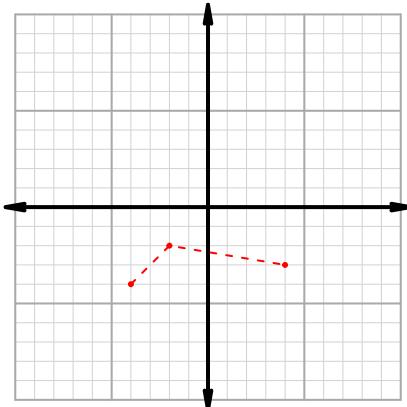
$$y = f(x) + 2$$



$$y = 2 \cdot f(x)$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 50$ and $x_2 = 60$. Express your answer as a reduced fraction.

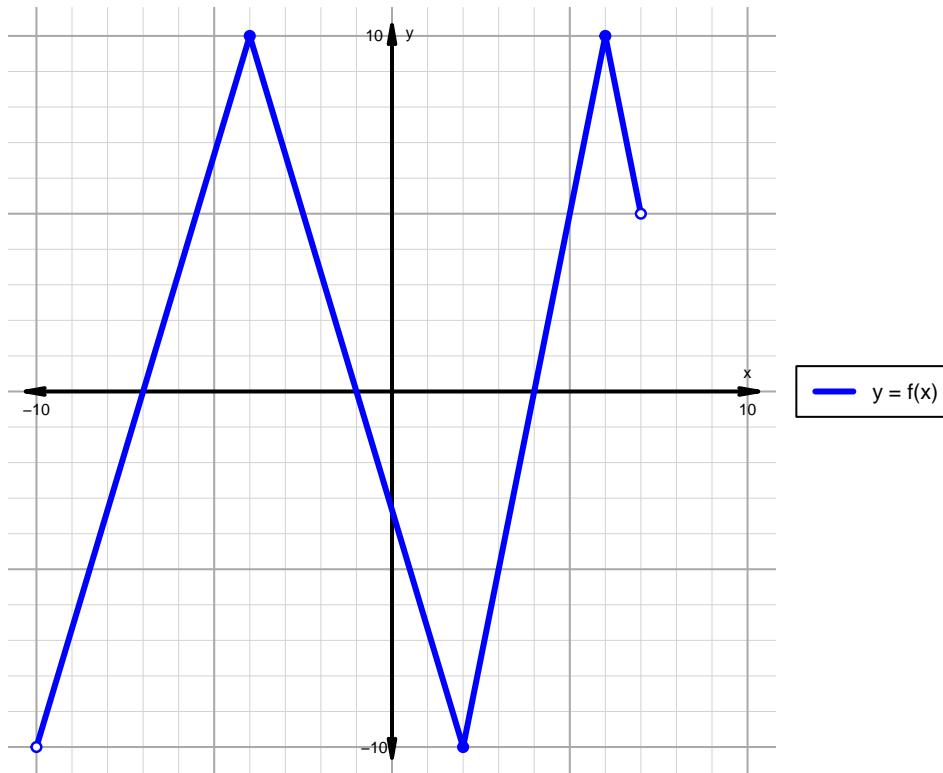
x	$g(x)$
50	80
60	66
66	50
80	60

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 86)

1. The function f is graphed below.



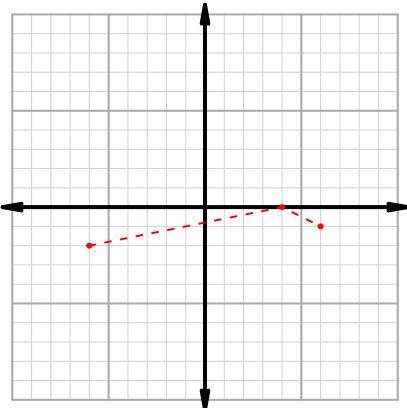
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

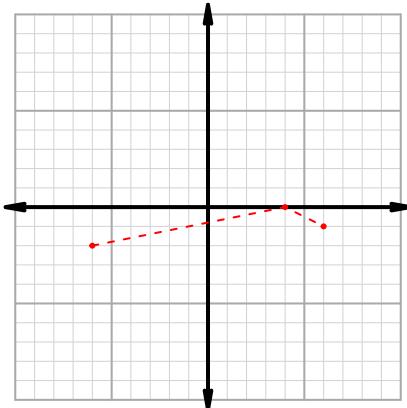
Intervals, Transformations, and Slope Practice (version 86)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

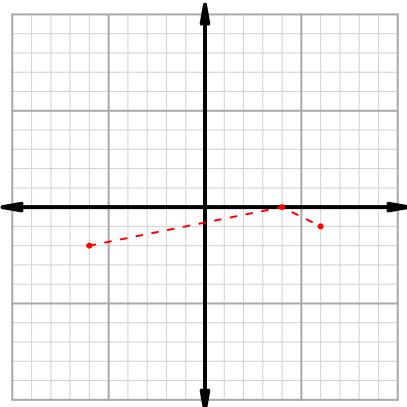
$$y = 2 \cdot f(x)$$



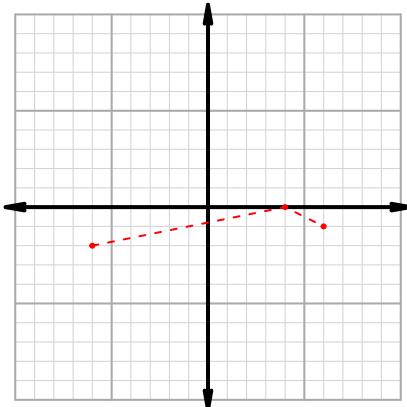
$$y = f(x - 2)$$



$$y = f(2 \cdot x)$$



$$y = f(x) - 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 11$ and $x_2 = 83$. Express your answer as a reduced fraction.

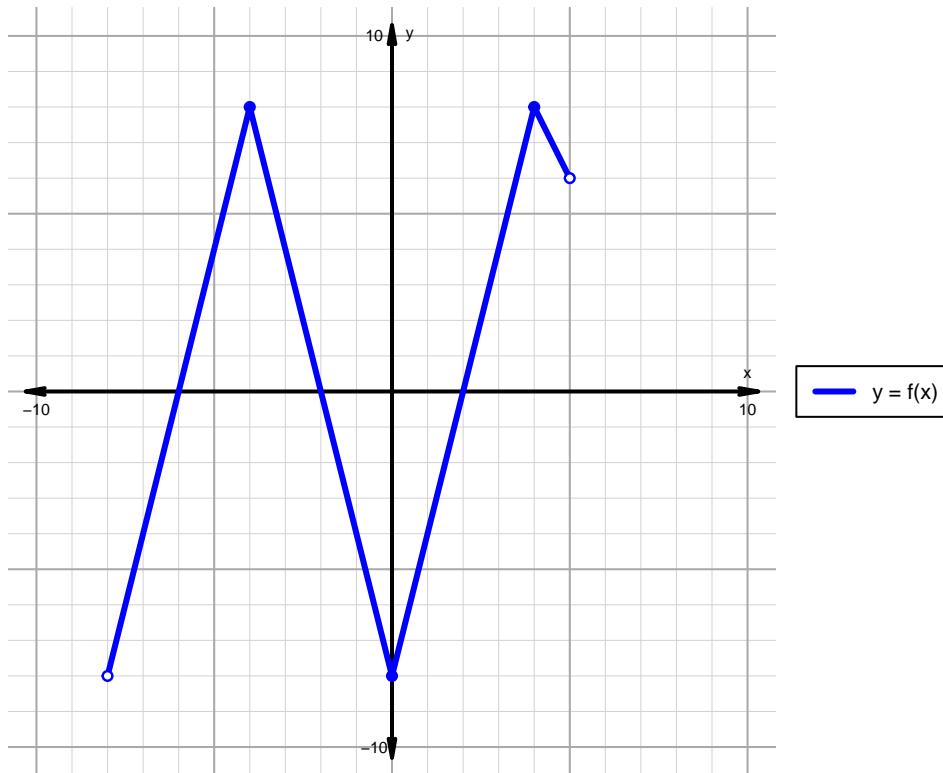
x	$g(x)$
11	16
16	83
32	11
83	32

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 87)

1. The function f is graphed below.



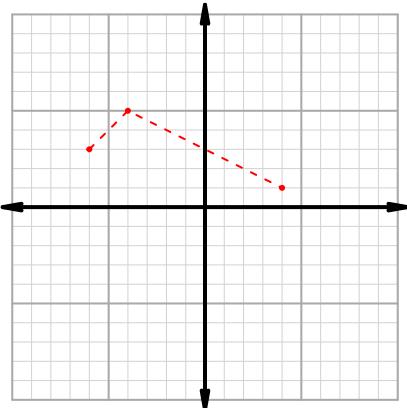
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

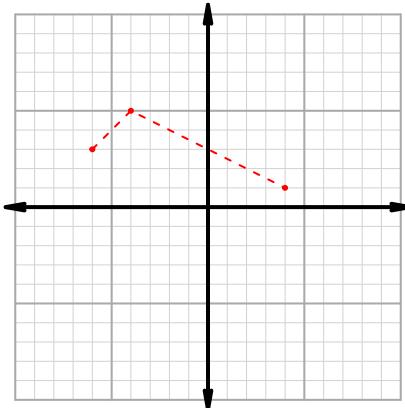
Intervals, Transformations, and Slope Practice (version 87)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

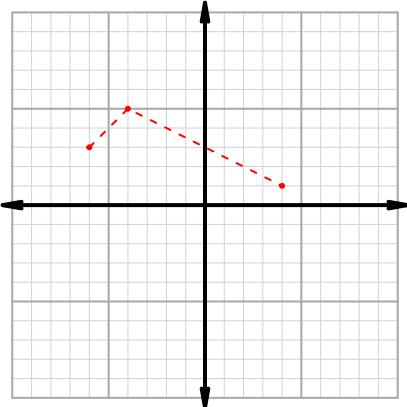
$$y = f(x - 2)$$



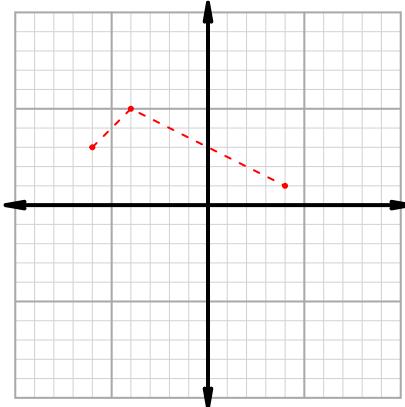
$$y = 2 \cdot f(x)$$



$$y = f(x) - 2$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 37$ and $x_2 = 49$. Express your answer as a reduced fraction.

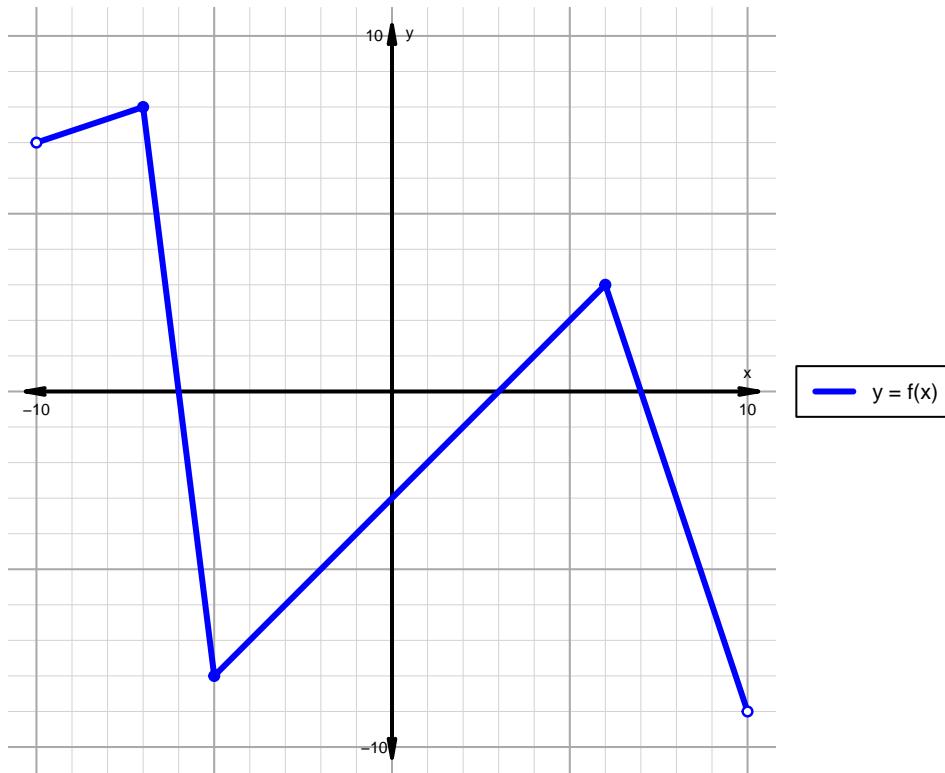
x	$g(x)$
37	59
49	69
59	49
69	37

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 88)

1. The function f is graphed below.



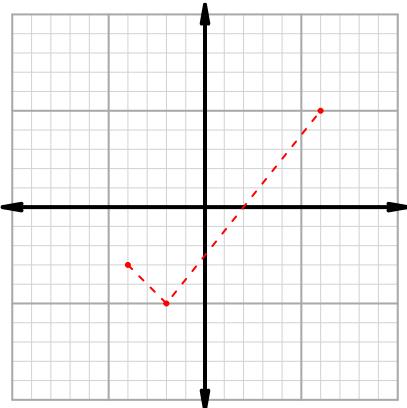
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

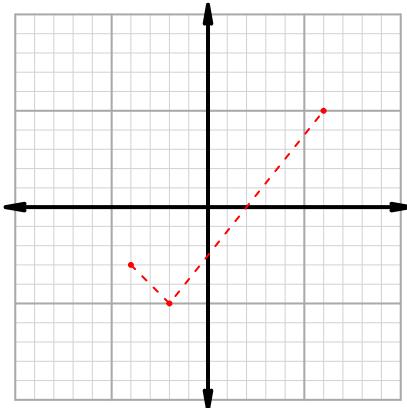
Intervals, Transformations, and Slope Practice (version 88)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

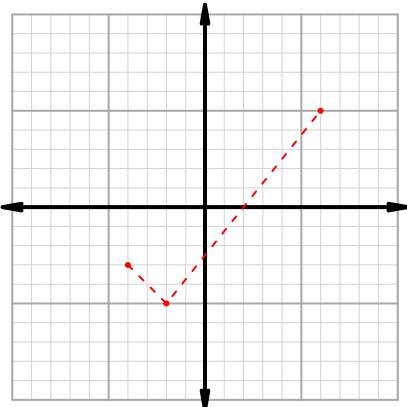
$$y = f(x - 2)$$



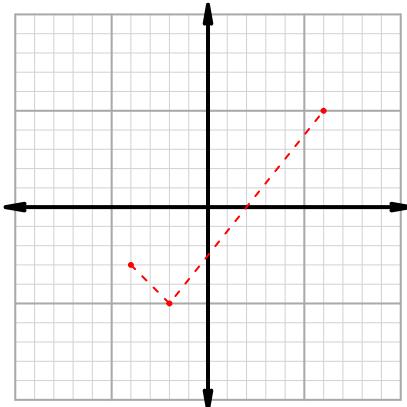
$$y = f(-2 \cdot x)$$



$$y = 2 \cdot f(x)$$



$$y = f(x) - 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 17$ and $x_2 = 27$. Express your answer as a reduced fraction.

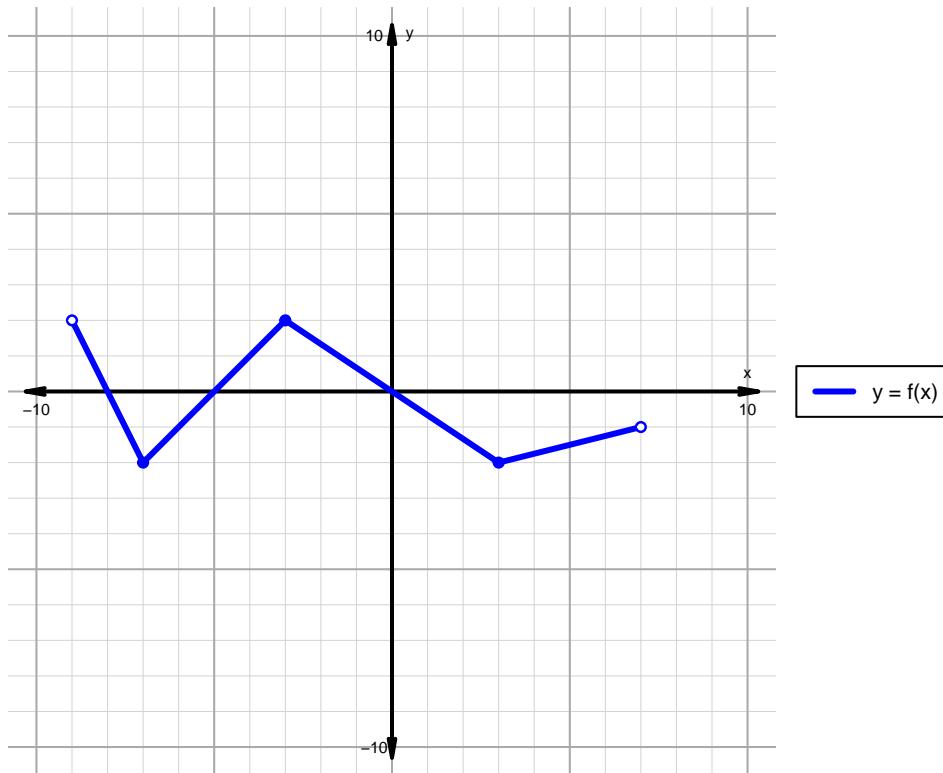
x	$g(x)$
17	71
27	83
71	27
83	17

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 89)

1. The function f is graphed below.



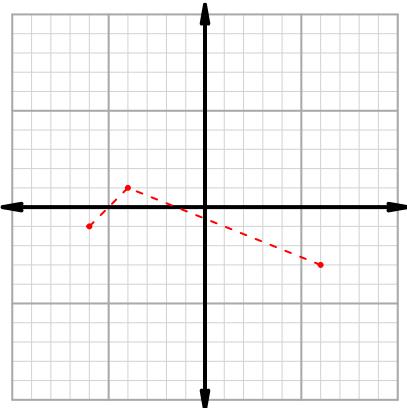
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

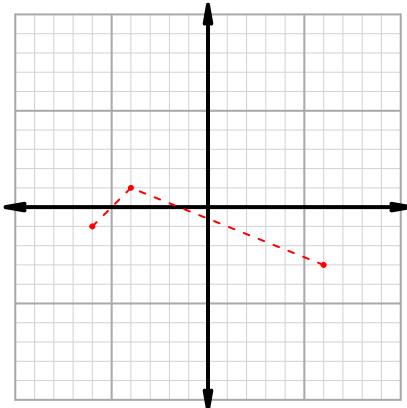
Intervals, Transformations, and Slope Practice (version 89)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

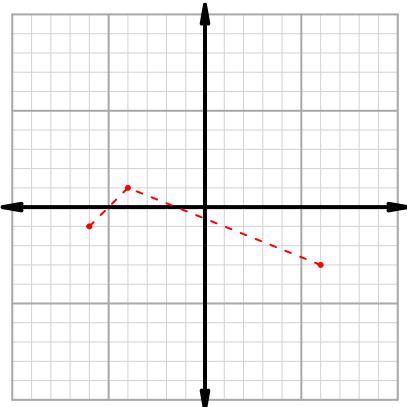
$$y = f(x) - 2$$



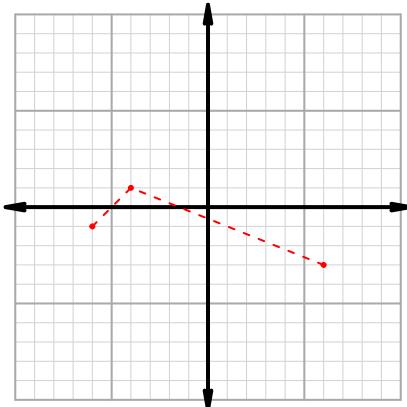
$$y = f(x - 2)$$



$$y = 2 \cdot f(x)$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 37$ and $x_2 = 79$. Express your answer as a reduced fraction.

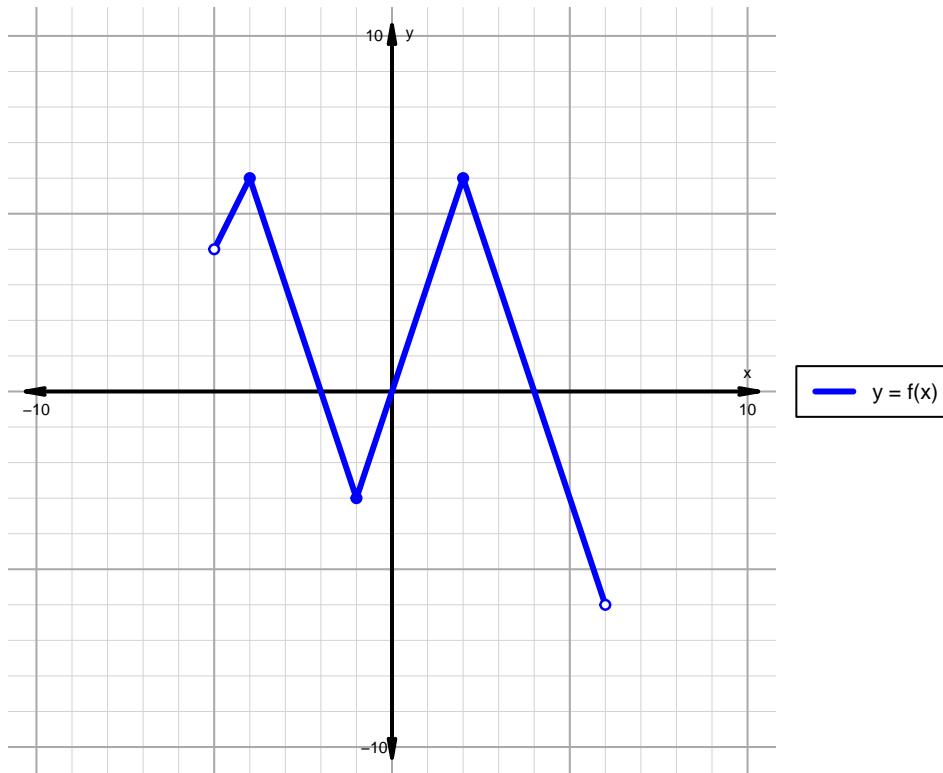
x	$g(x)$
37	47
47	79
79	96
96	37

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 90)

1. The function f is graphed below.



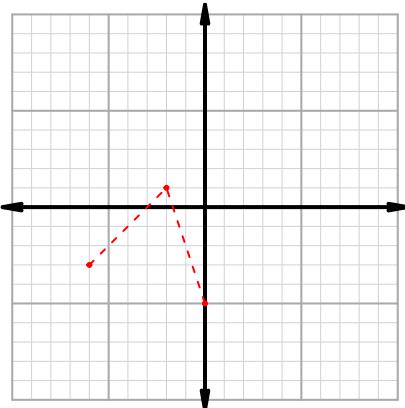
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

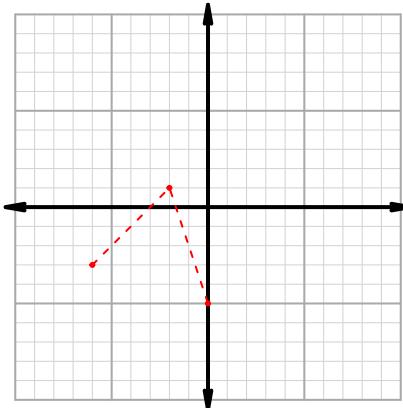
Intervals, Transformations, and Slope Practice (version 90)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

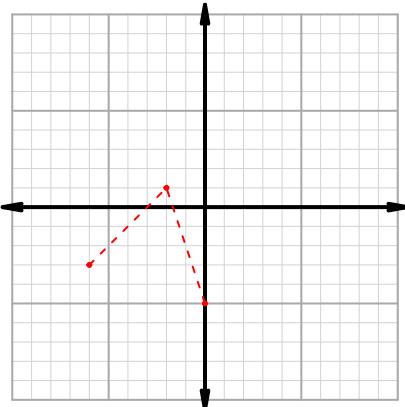
$$y = 2 \cdot f(x)$$



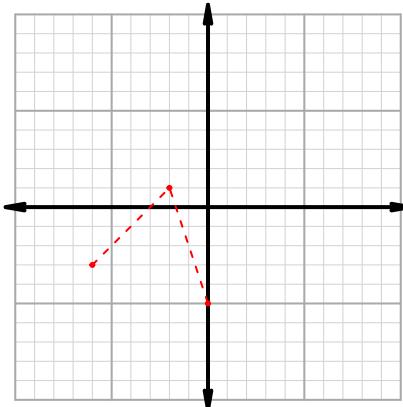
$$y = f(-2 \cdot x)$$



$$y = f(x) + 2$$



$$y = f(x - 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 25$ and $x_2 = 65$. Express your answer as a reduced fraction.

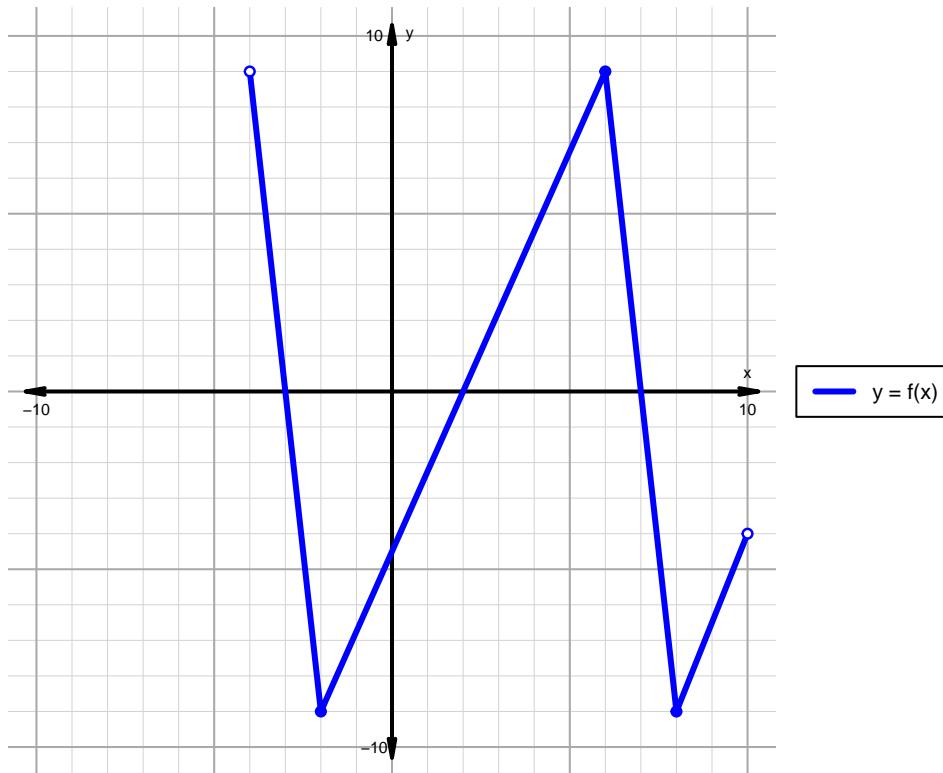
x	$g(x)$
6	25
25	70
65	6
70	65

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 91)

1. The function f is graphed below.



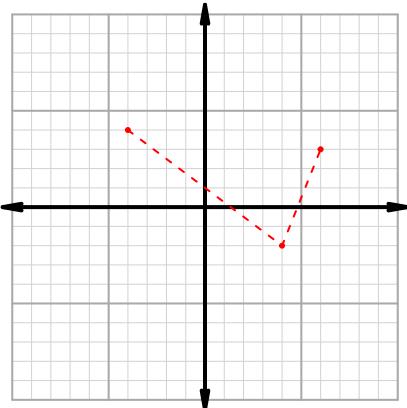
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

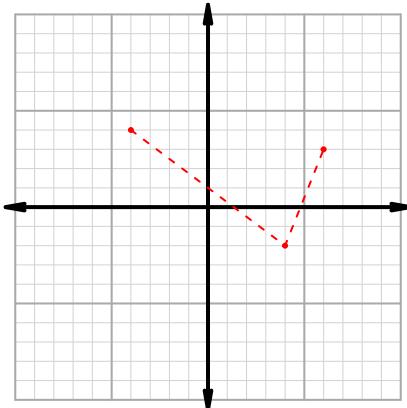
Intervals, Transformations, and Slope Practice (version 91)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

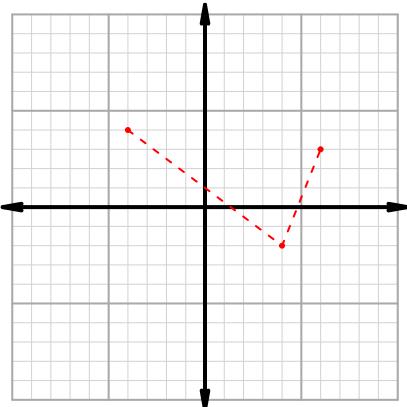
$$y = f(x) + 2$$



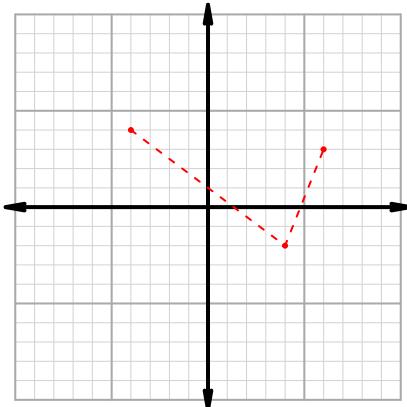
$$y = f(x + 2)$$



$$y = 2 \cdot f(x)$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 83$ and $x_2 = 99$. Express your answer as a reduced fraction.

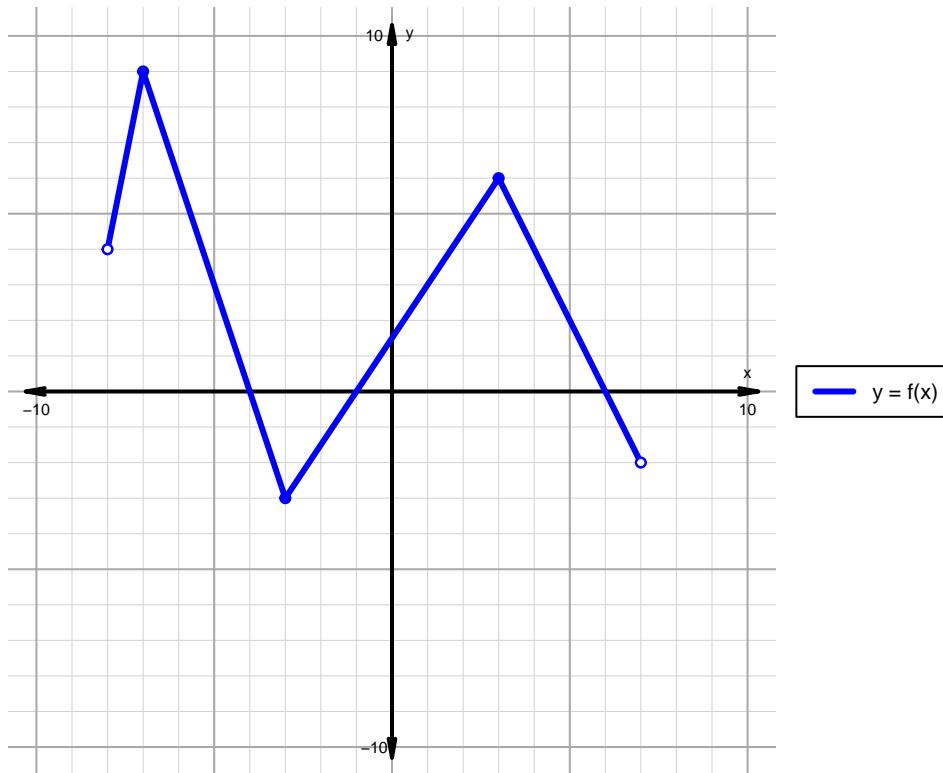
x	$g(x)$
39	99
57	83
83	39
99	57

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 92)

1. The function f is graphed below.



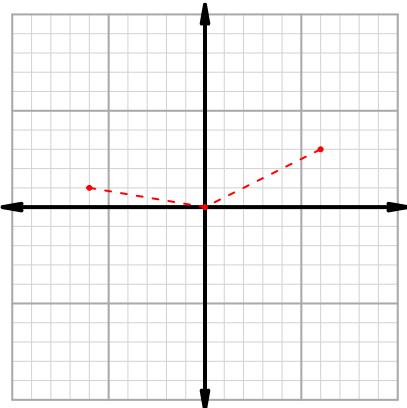
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

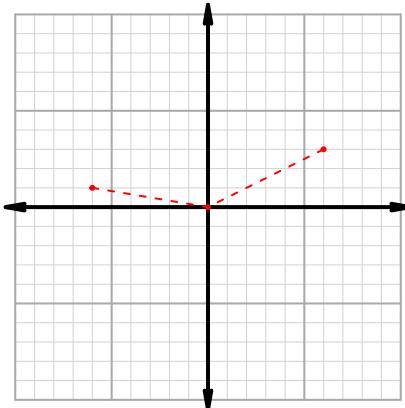
Intervals, Transformations, and Slope Practice (version 92)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

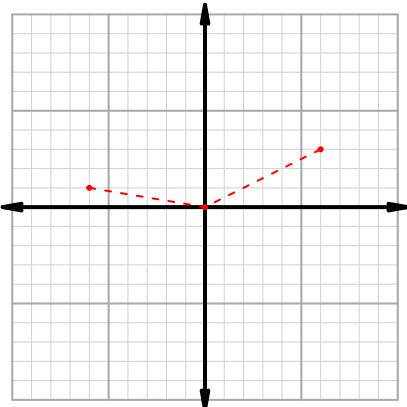
$$y = f(x) + 2$$



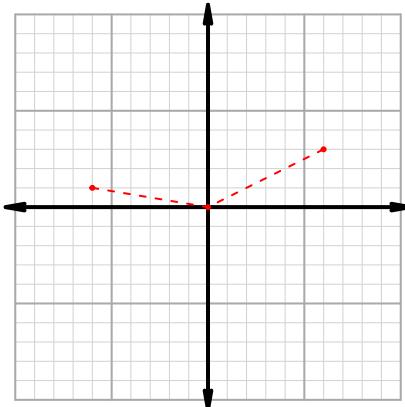
$$y = f(2 \cdot x)$$



$$y = f(x - 2)$$



$$y = -2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 29$ and $x_2 = 92$. Express your answer as a reduced fraction.

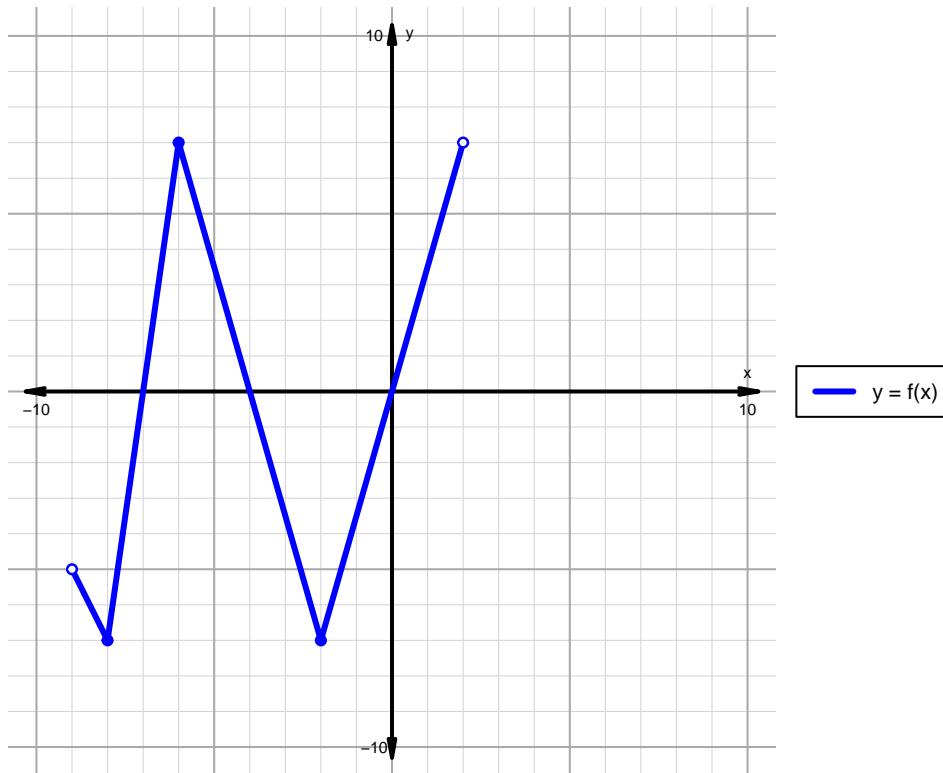
x	$g(x)$
18	92
29	18
74	29
92	74

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 93)

1. The function f is graphed below.



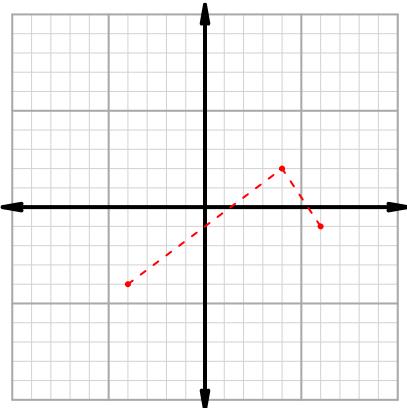
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

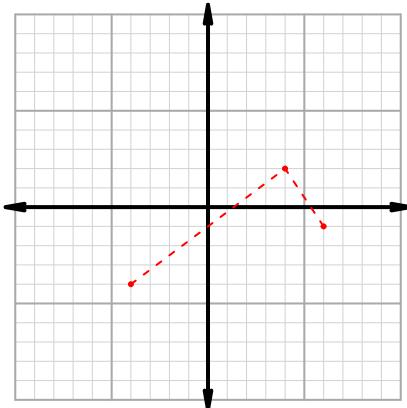
Intervals, Transformations, and Slope Practice (version 93)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

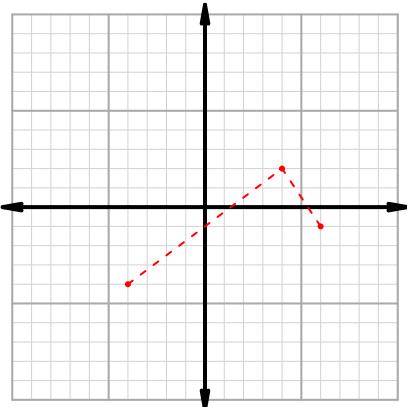
$$y = f(-2 \cdot x)$$



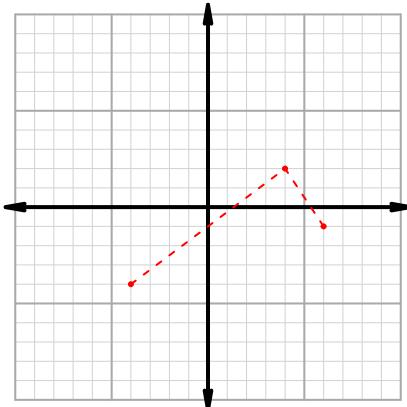
$$y = -2 \cdot f(x)$$



$$y = f(x) - 2$$



$$y = f(x + 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 14$ and $x_2 = 38$. Express your answer as a reduced fraction.

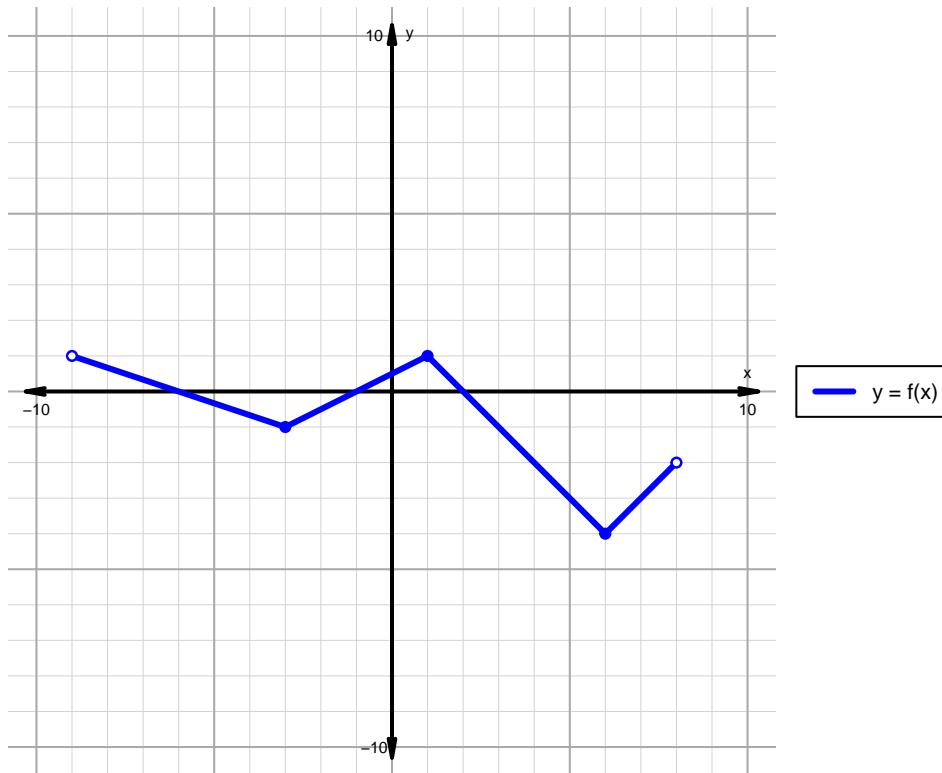
x	$g(x)$
14	55
38	64
55	38
64	14

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 94)

1. The function f is graphed below.



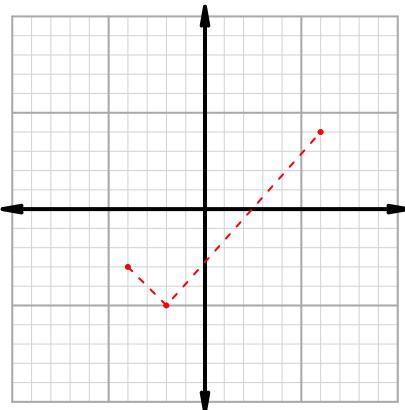
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

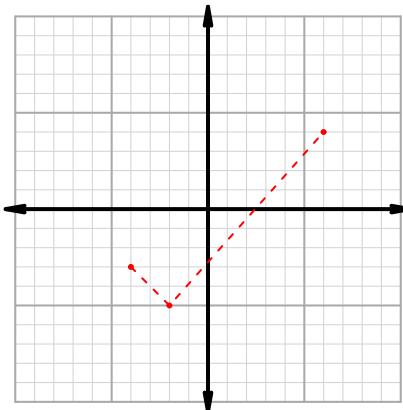
Intervals, Transformations, and Slope Practice (version 94)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

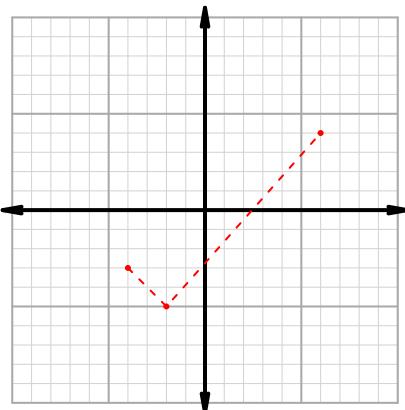
$$y = f(x) - 2$$



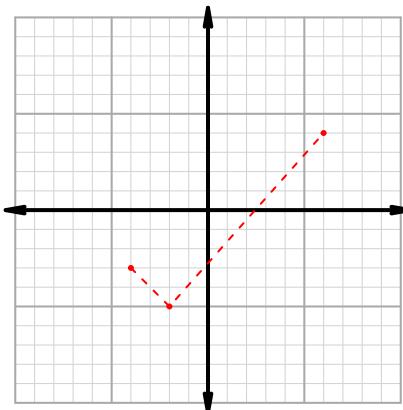
$$y = f(x - 2)$$



$$y = f(-2 \cdot x)$$



$$y = 2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 35$ and $x_2 = 60$. Express your answer as a reduced fraction.

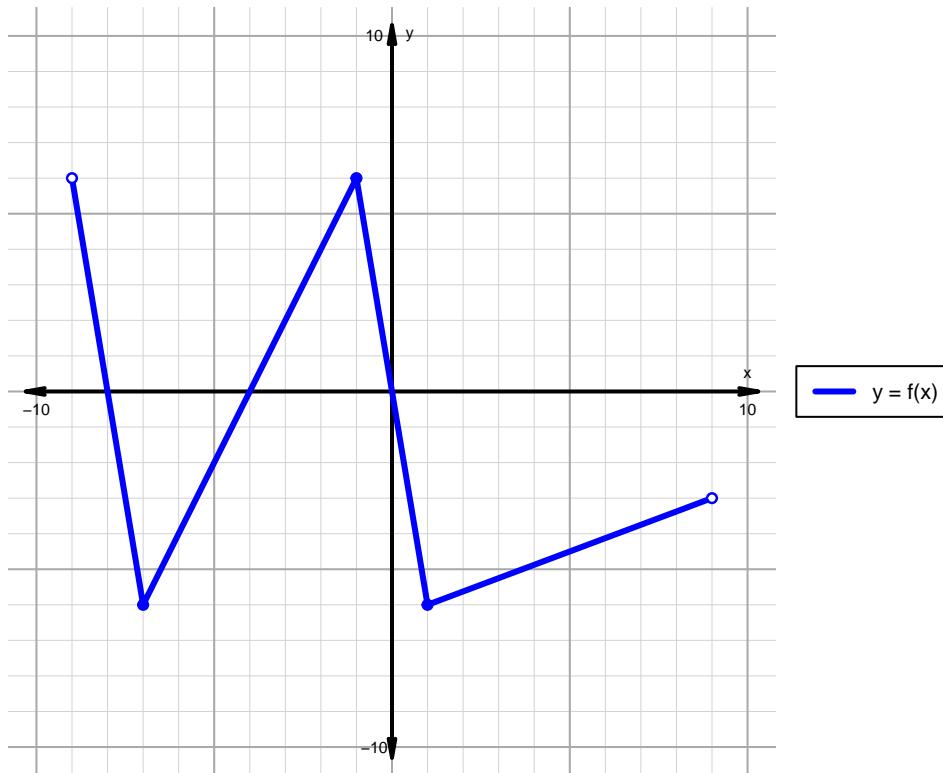
x	$g(x)$
35	72
60	92
72	60
92	35

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 95)

1. The function f is graphed below.



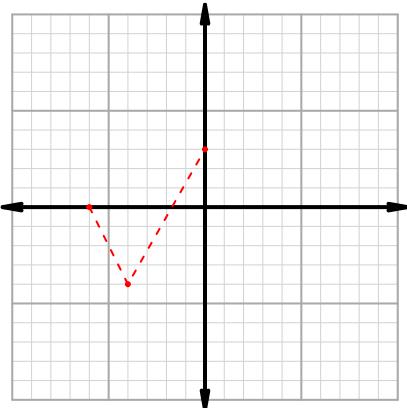
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

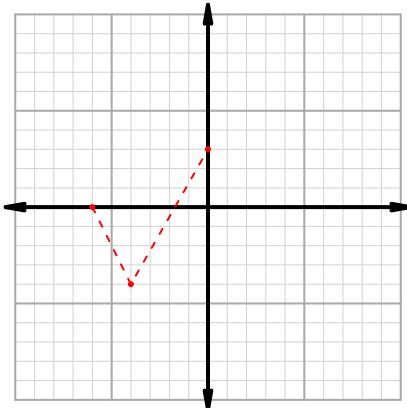
Intervals, Transformations, and Slope Practice (version 95)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

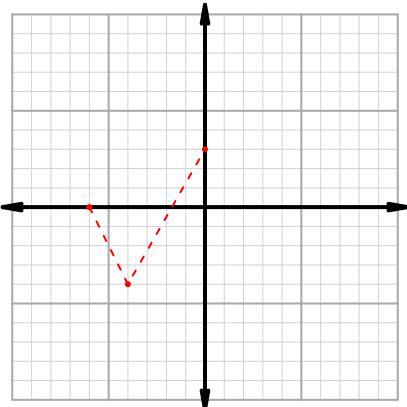
$$y = f(x+2)$$



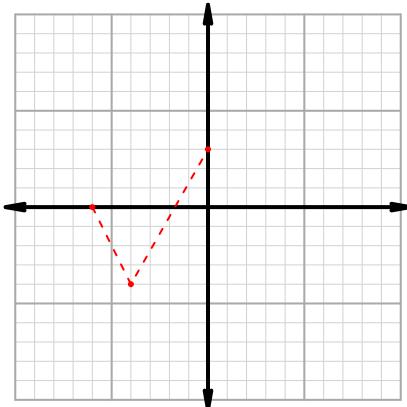
$$y = f(x) - 2$$



$$y = 2 \cdot f(x)$$



$$y = f(2 \cdot x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 35$ and $x_2 = 80$. Express your answer as a reduced fraction.

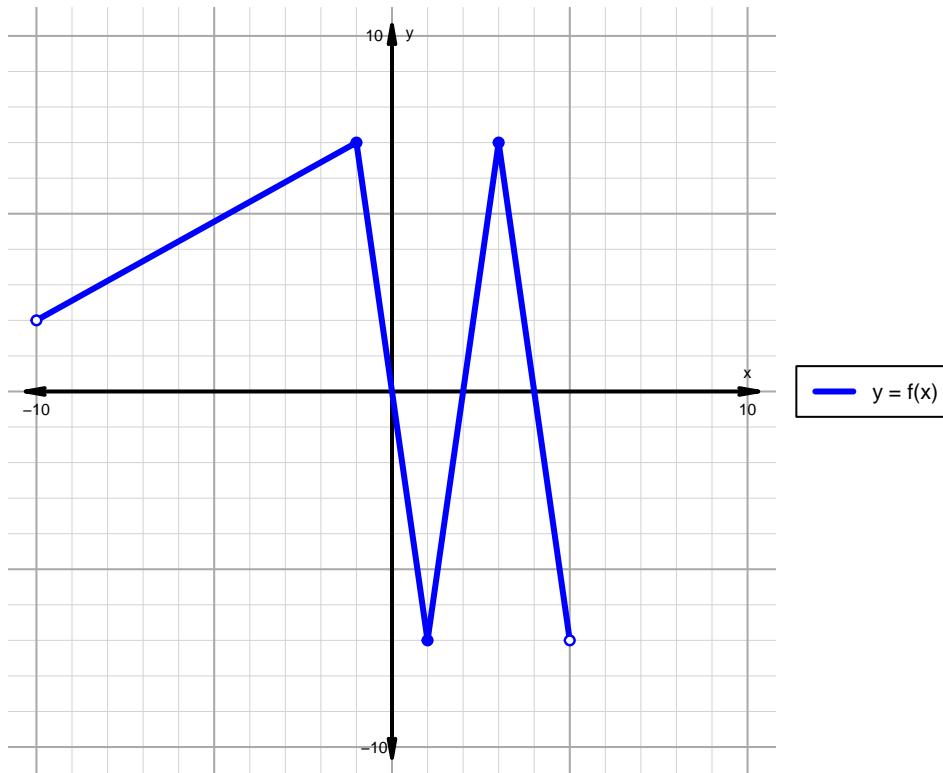
x	$g(x)$
35	66
39	35
66	80
80	39

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 96)

1. The function f is graphed below.



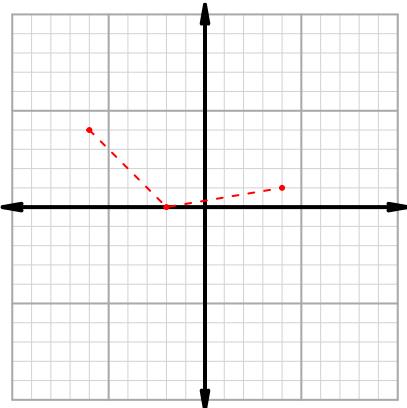
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

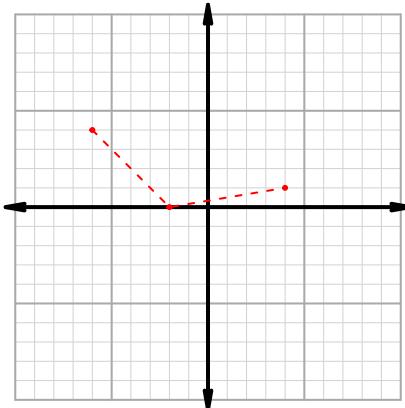
Intervals, Transformations, and Slope Practice (version 96)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

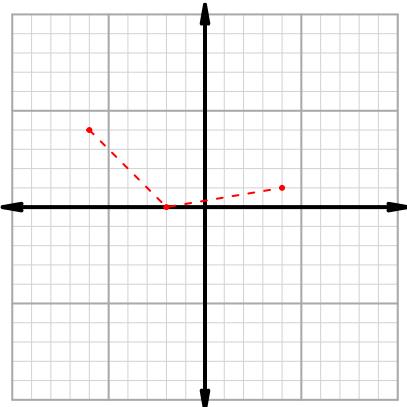
$$y = f(x+2)$$



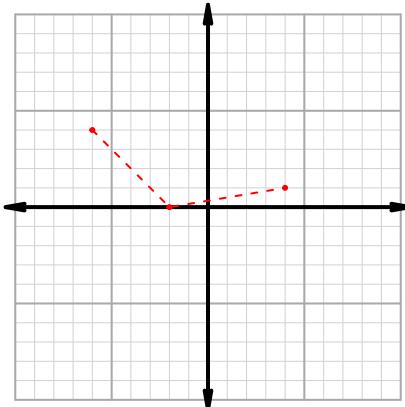
$$y = f(2 \cdot x)$$



$$y = 2 \cdot f(x)$$



$$y = f(x) - 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 56$ and $x_2 = 77$. Express your answer as a reduced fraction.

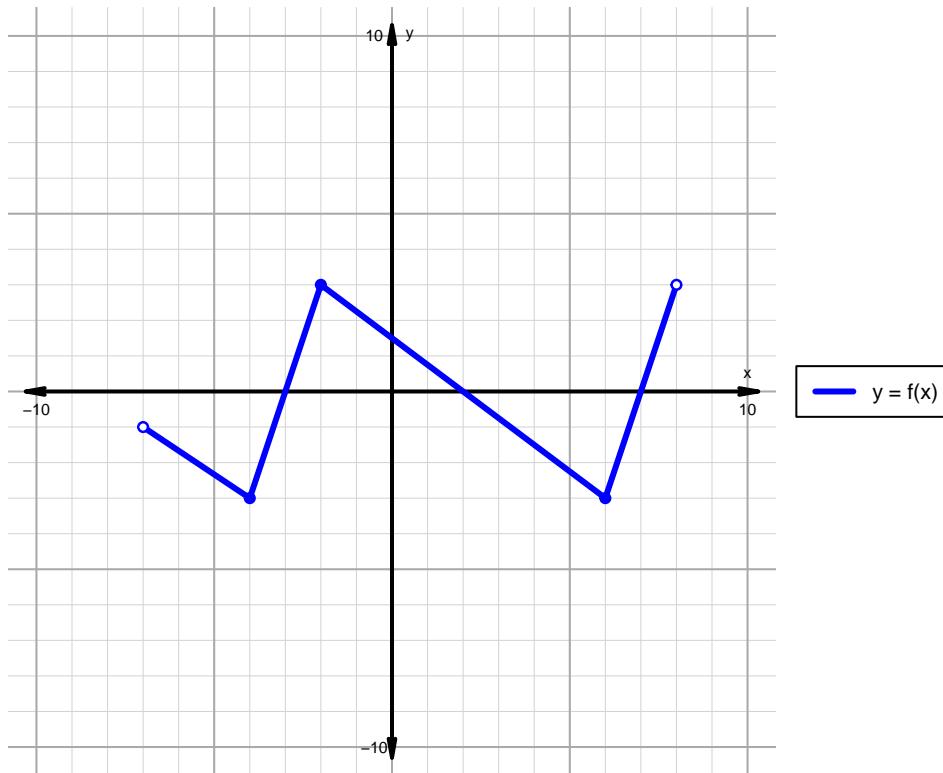
x	$g(x)$
43	77
56	43
77	78
78	56

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 97)

1. The function f is graphed below.



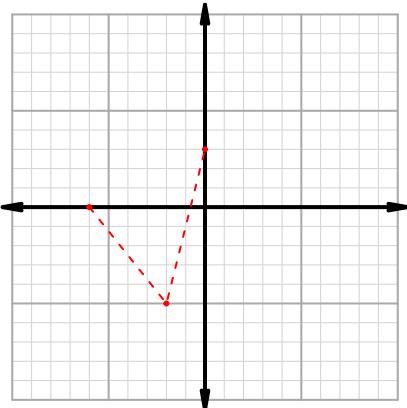
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

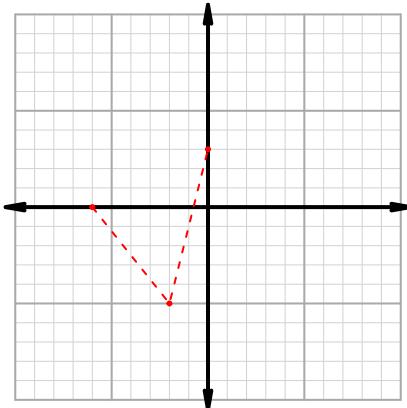
Intervals, Transformations, and Slope Practice (version 97)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

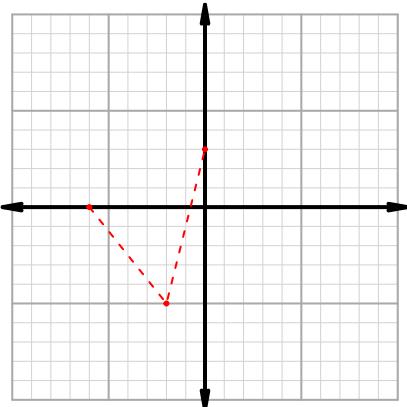
$$y = f(x - 2)$$



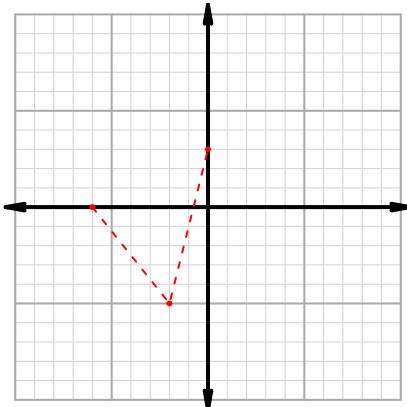
$$y = -2 \cdot f(x)$$



$$y = f(-2 \cdot x)$$



$$y = f(x) - 2$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 11$ and $x_2 = 92$. Express your answer as a reduced fraction.

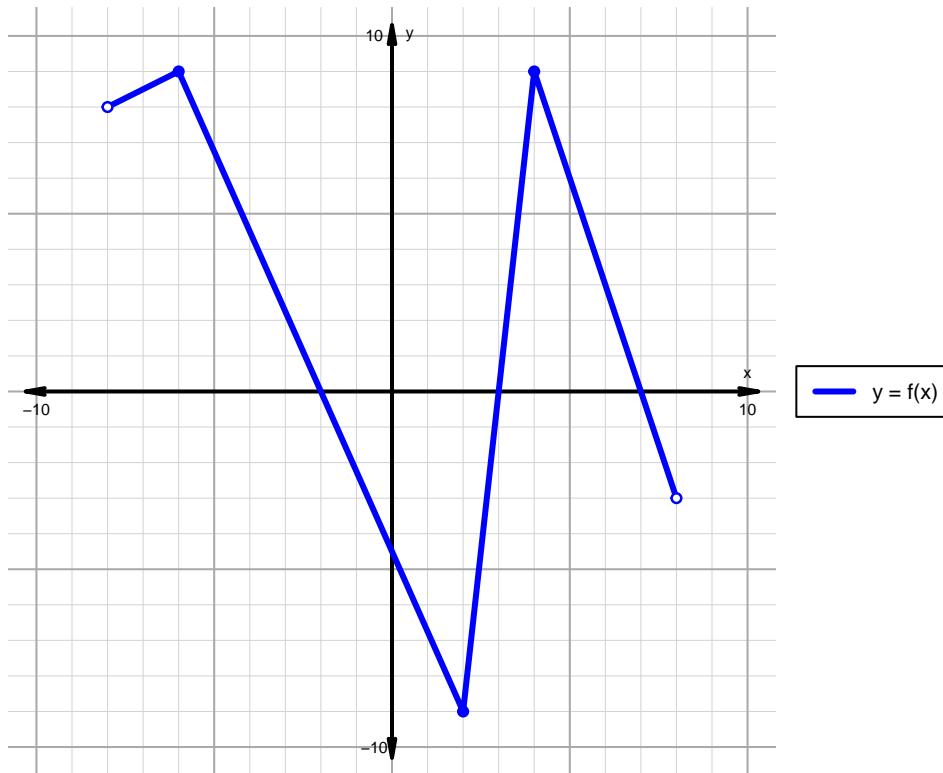
x	$g(x)$
11	38
38	92
83	11
92	83

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 98)

1. The function f is graphed below.



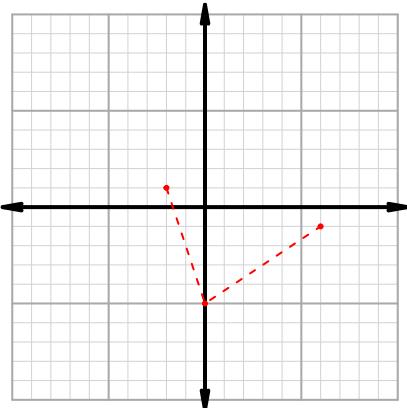
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

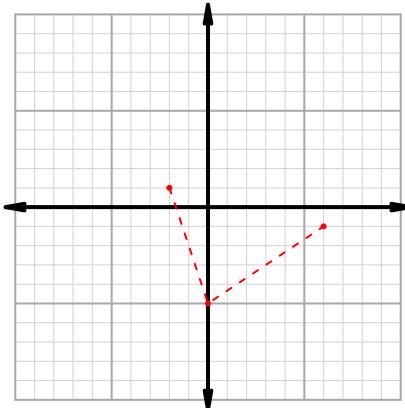
Intervals, Transformations, and Slope Practice (version 98)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

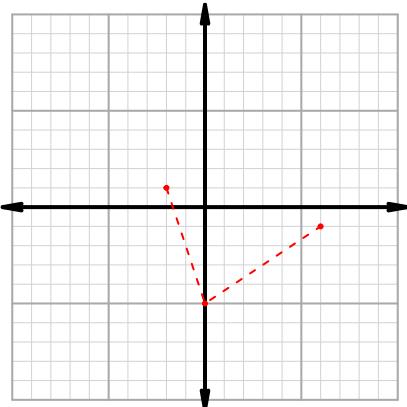
$$y = f(x) - 2$$



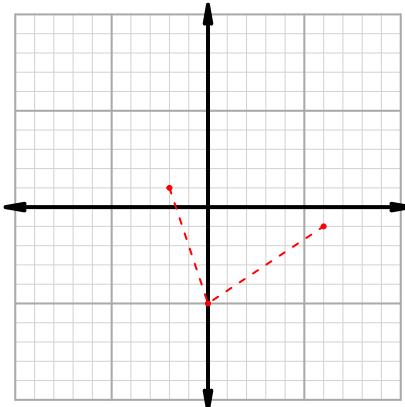
$$y = 2 \cdot f(x)$$



$$y = f(-2 \cdot x)$$



$$y = f(x - 2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 23$ and $x_2 = 79$. Express your answer as a reduced fraction.

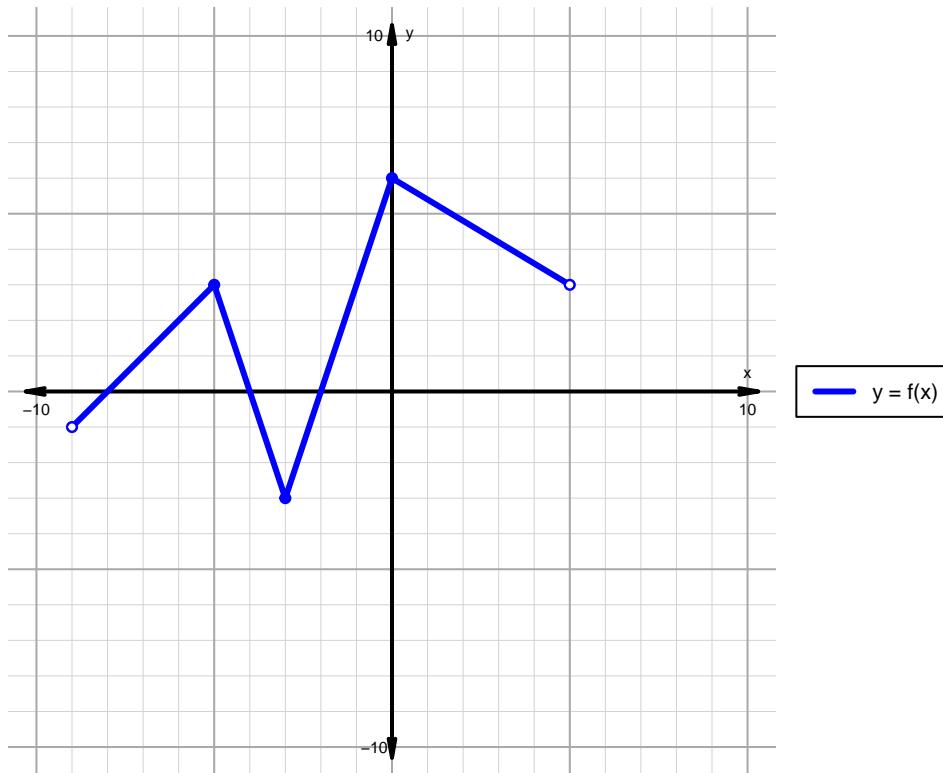
x	$g(x)$
4	23
23	53
53	79
79	4

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 99)

1. The function f is graphed below.



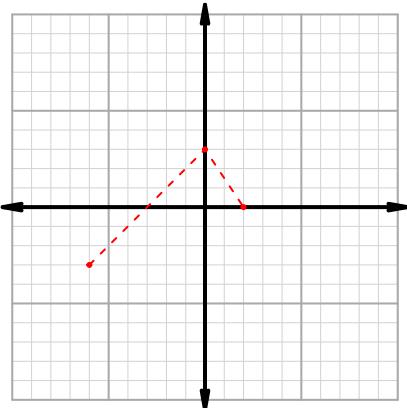
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

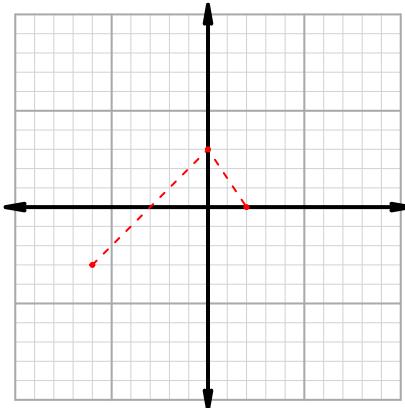
Intervals, Transformations, and Slope Practice (version 99)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

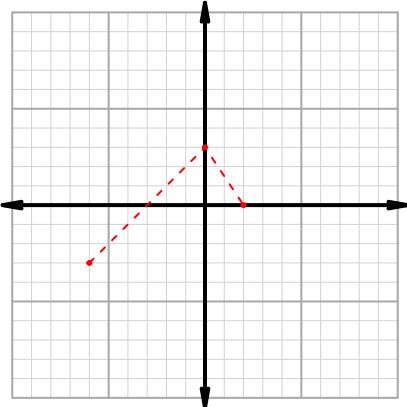
$$y = f(x) + 2$$



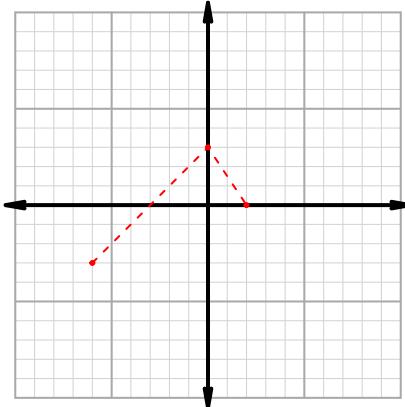
$$y = 2 \cdot f(x)$$



$$y = f(-2 \cdot x)$$



$$y = f(x+2)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 14$ and $x_2 = 26$. Express your answer as a reduced fraction.

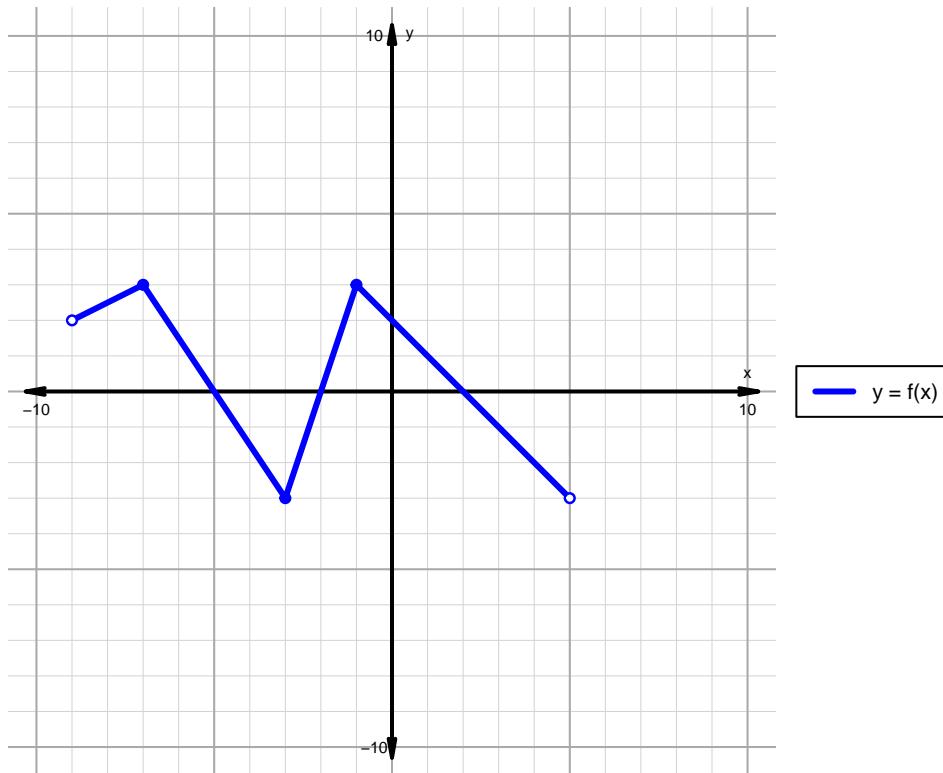
x	$g(x)$
14	93
26	66
66	14
93	26

Name: _____

Date: _____

Intervals, Transformations, and Slope Practice (version 100)

1. The function f is graphed below.



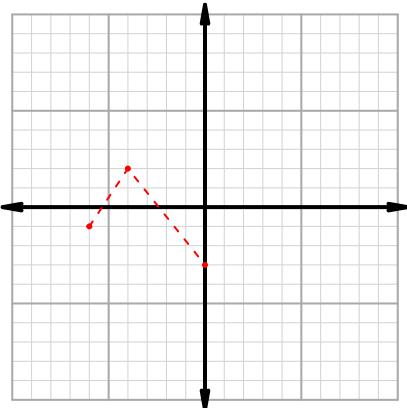
Indicate the following intervals using interval notation. Remember, you can use \cup between two intervals to indicate the union. Except for range, all intervals will indicate x values; this is standard.

Feature	Where
Positive	
Negative	
Increasing	
Decreasing	
Domain	
Range	

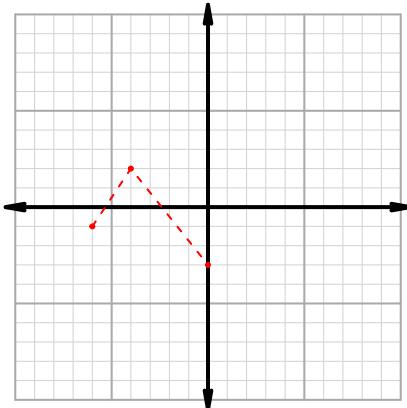
Intervals, Transformations, and Slope Practice (version 100)

2. In the four graphs below, $y = f(x)$ is graphed as a dotted line. With a solid line, please graph the transformations indicated by the equations below.

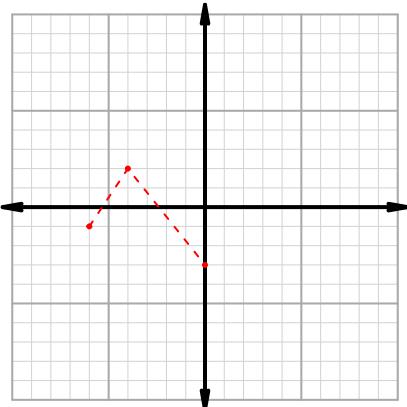
$$y = f(2 \cdot x)$$



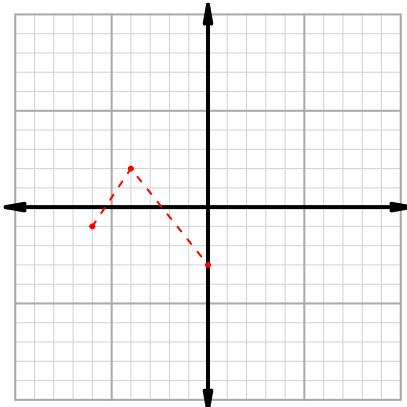
$$y = f(x) + 2$$



$$y = f(x + 2)$$



$$y = 2 \cdot f(x)$$



3. Let function g be defined by the table below. Use the formula $\frac{g(x_2) - g(x_1)}{x_2 - x_1}$ to find the average rate of change between $x_1 = 33$ and $x_2 = 47$. Express your answer as a reduced fraction.

x	$g(x)$
33	56
40	33
47	40
56	47